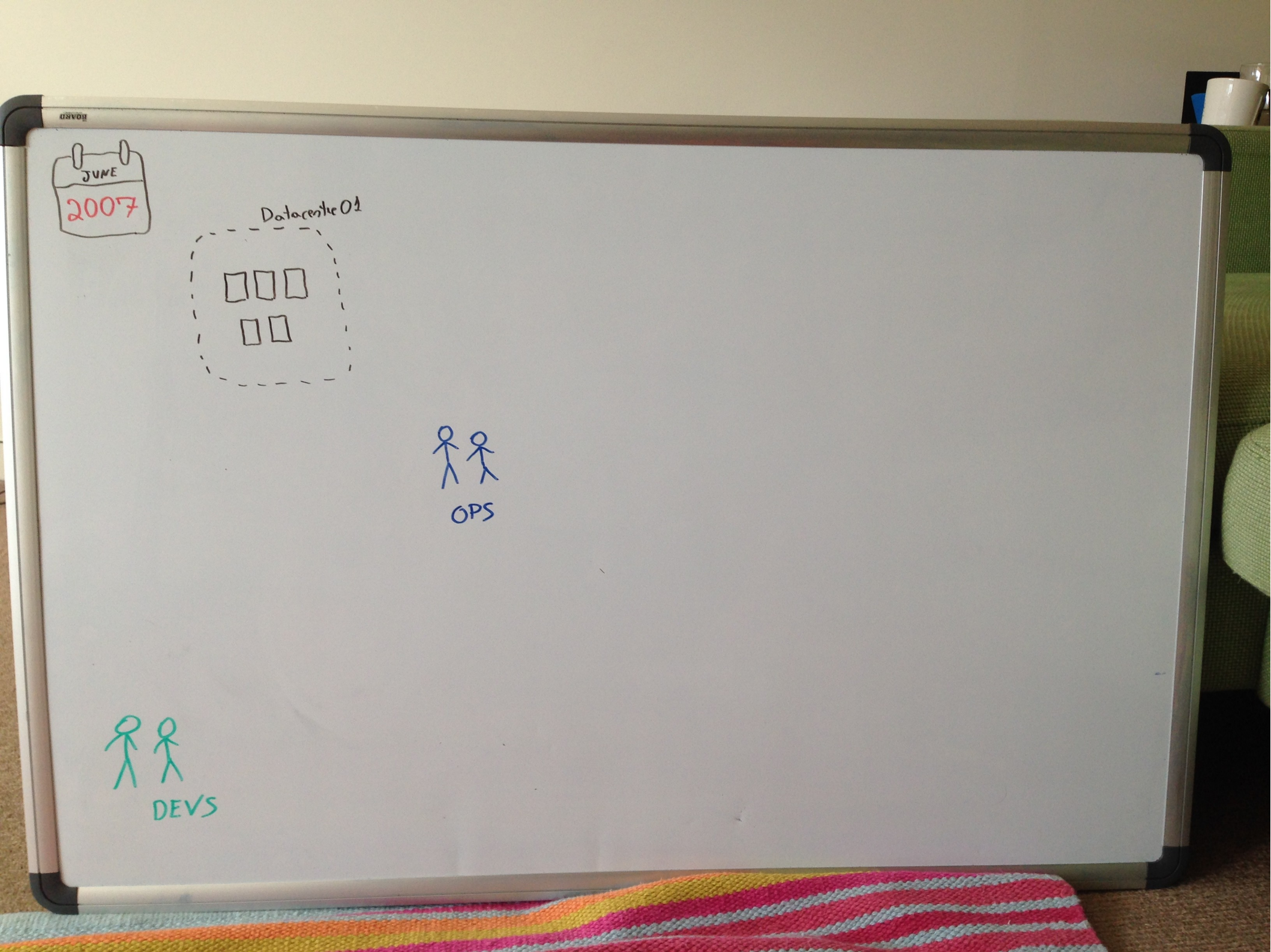
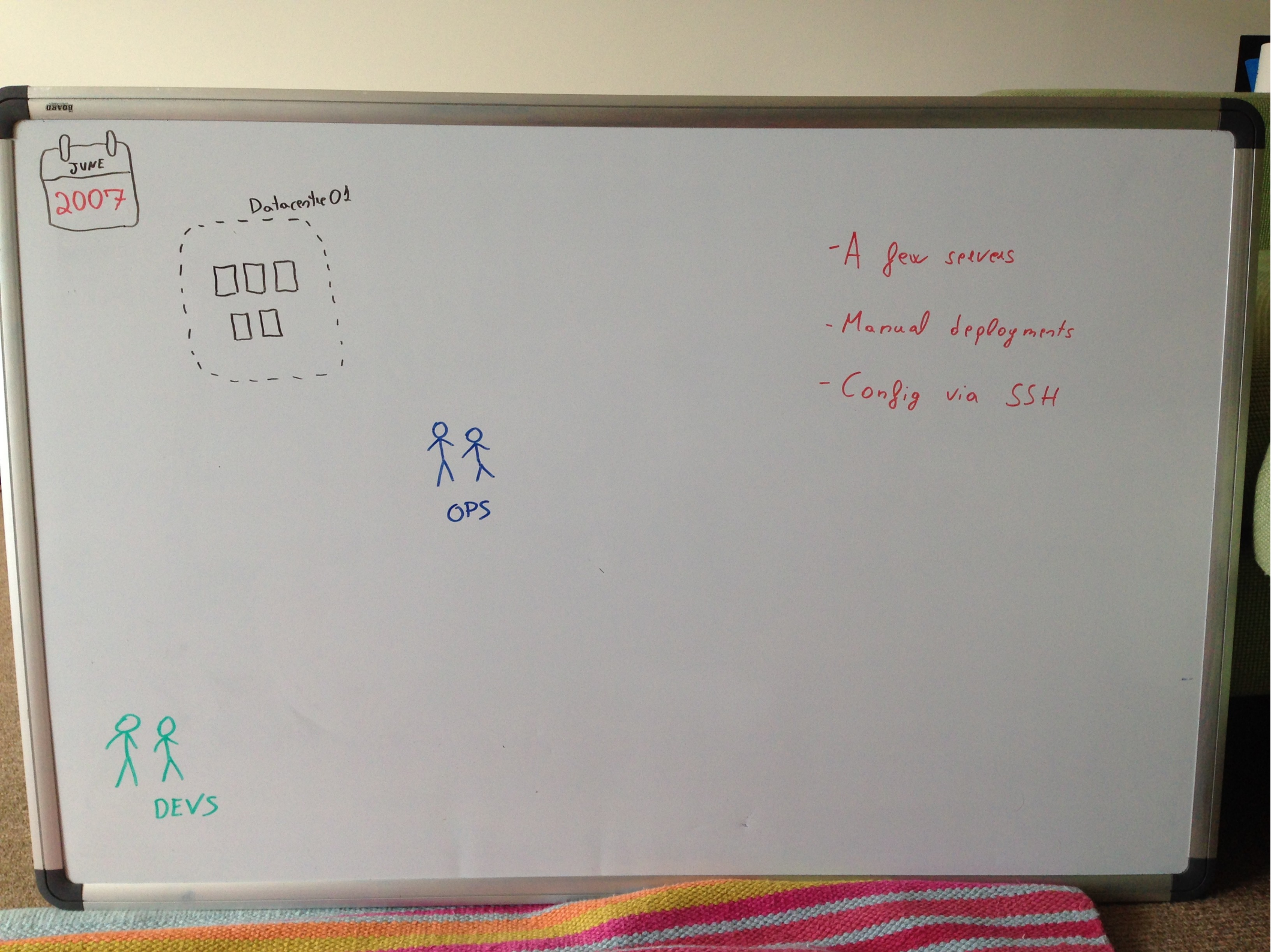
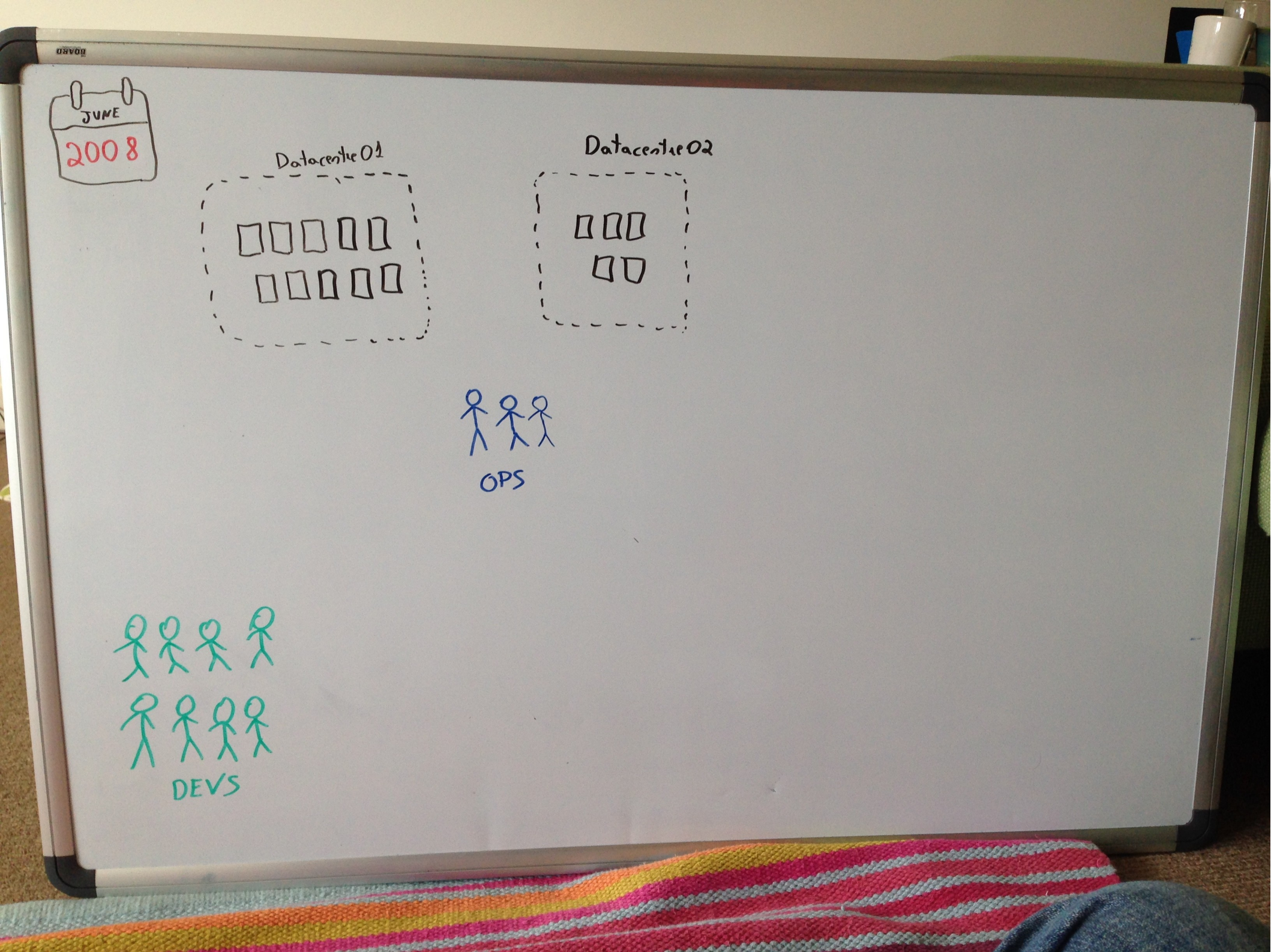
CONFIGURATION MANAGEMENT

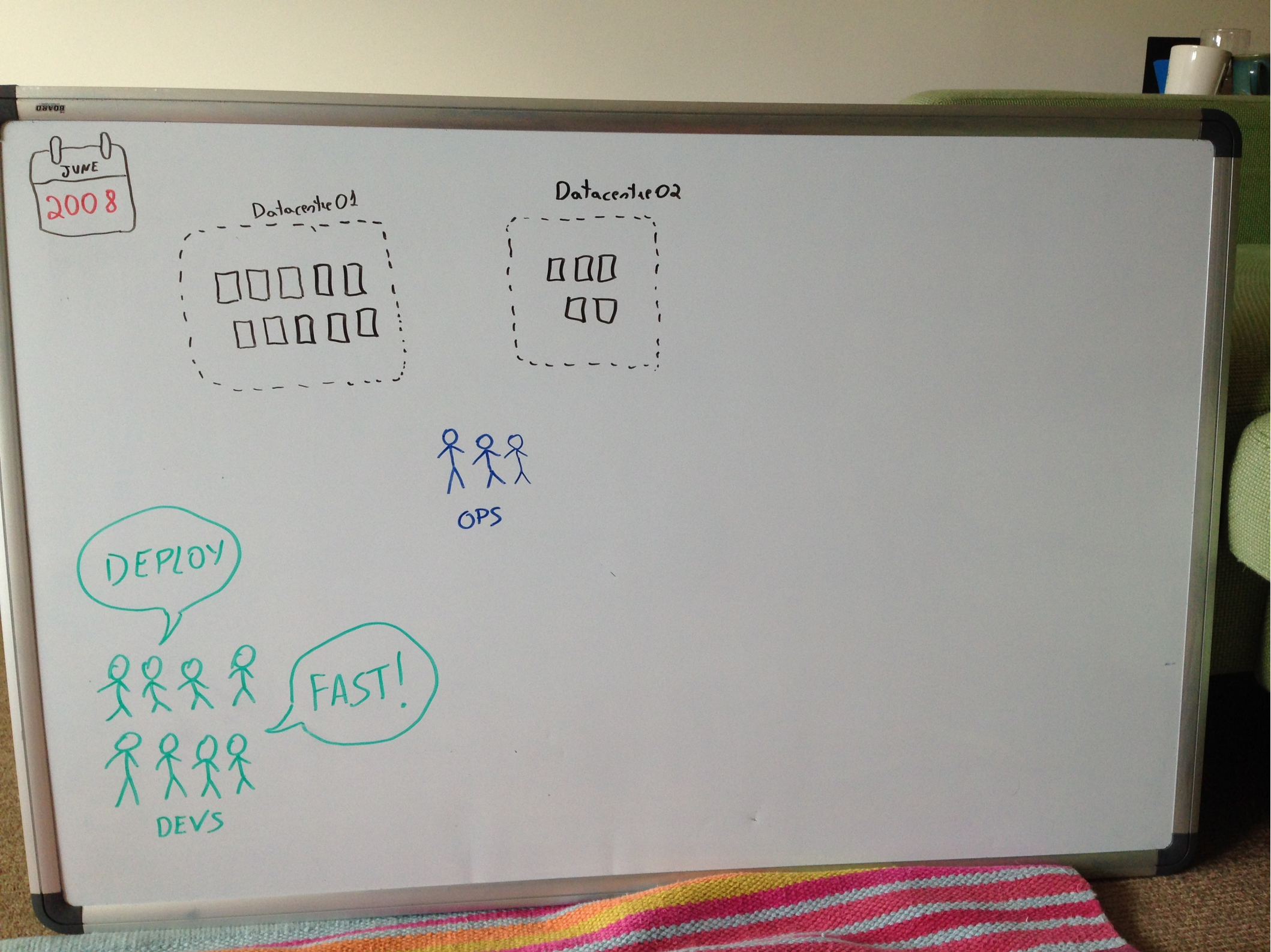
"A LOVE STORY"

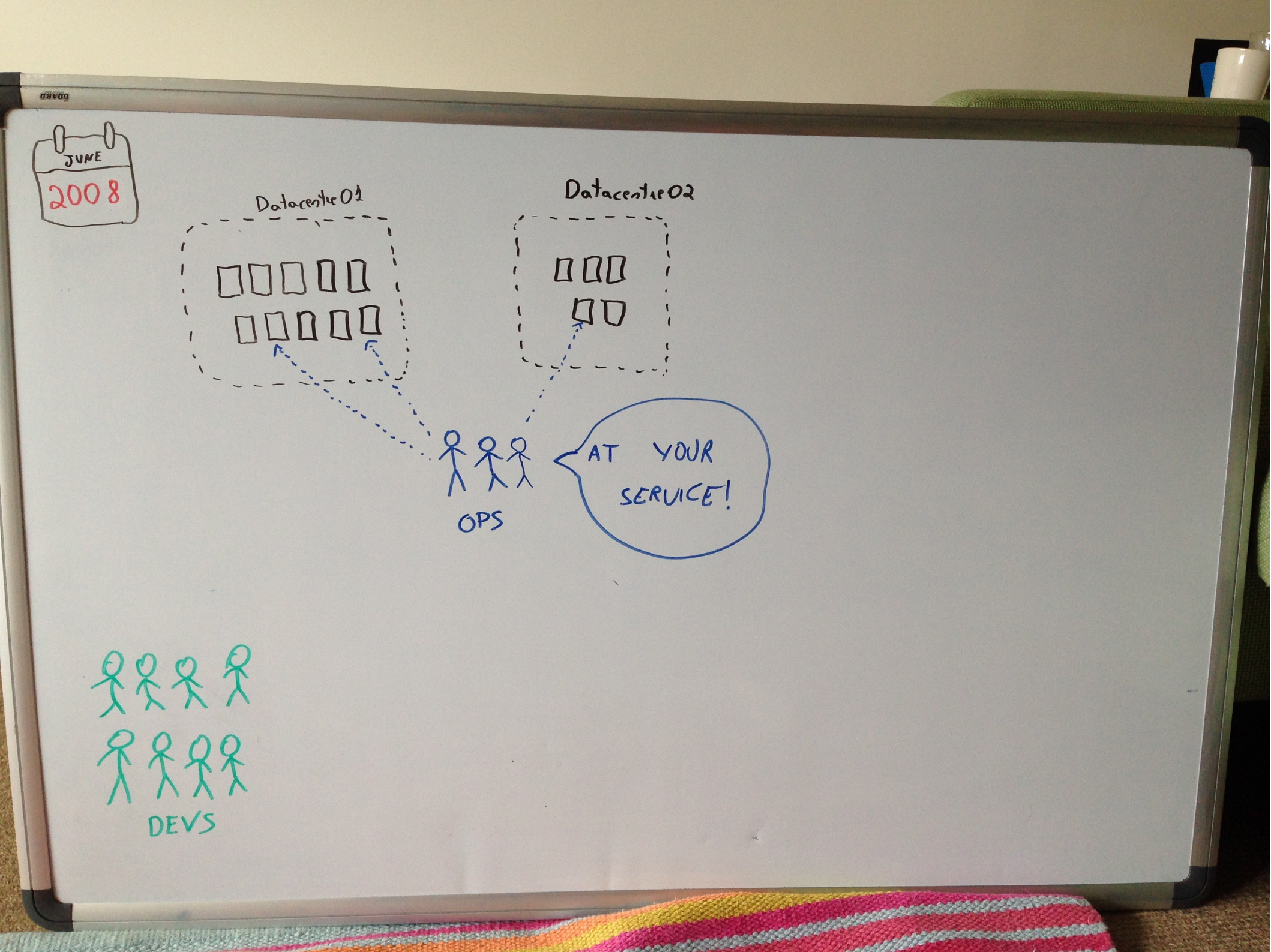
by Javier Turegano
@setoide

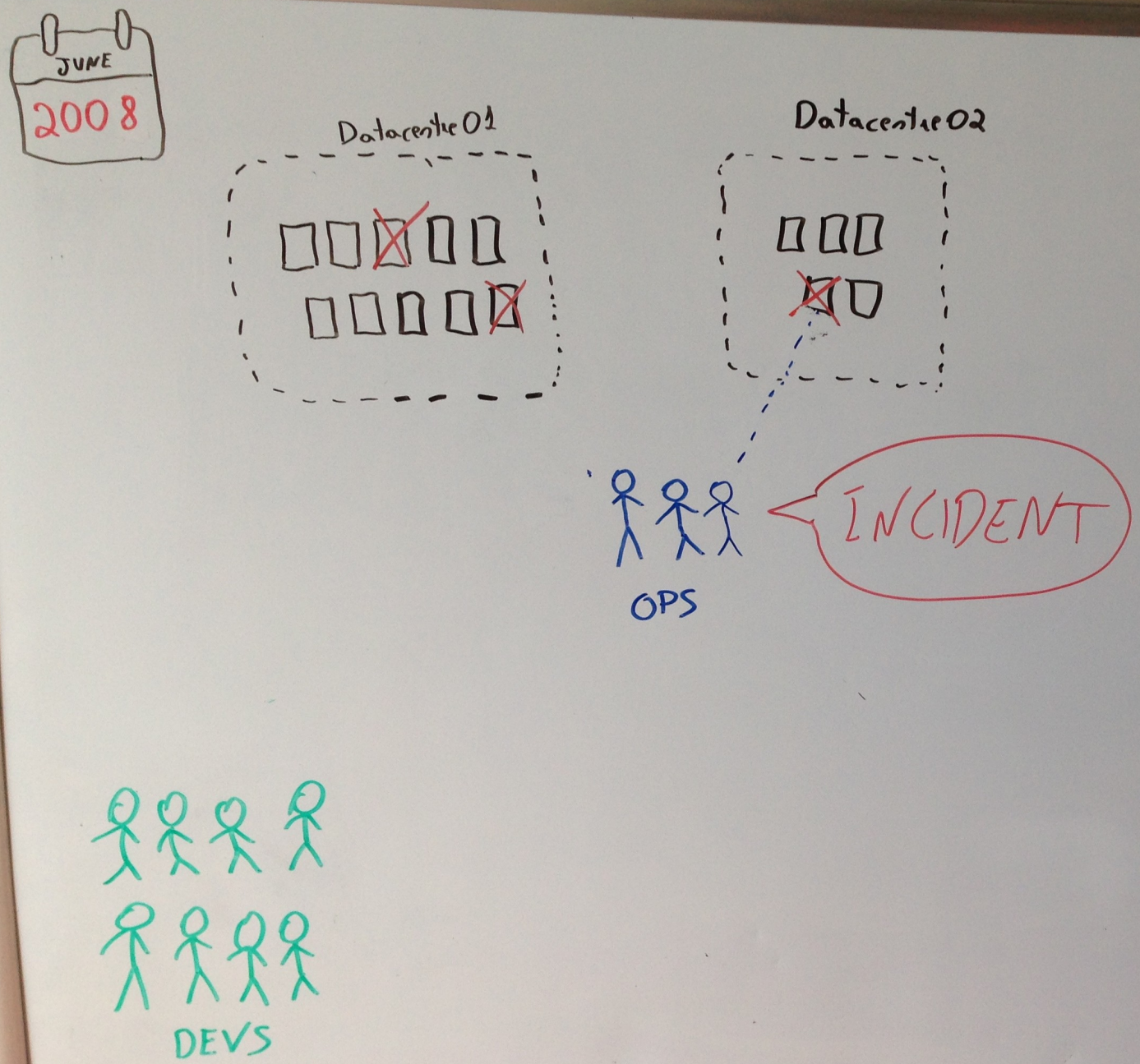

JUNE
2007
Datacentre 01
OPS
DEVS


JUNE
2007
Datacentre 01
OPS
DEVS
- A few servers
- Manual deployments
- Config via SSH

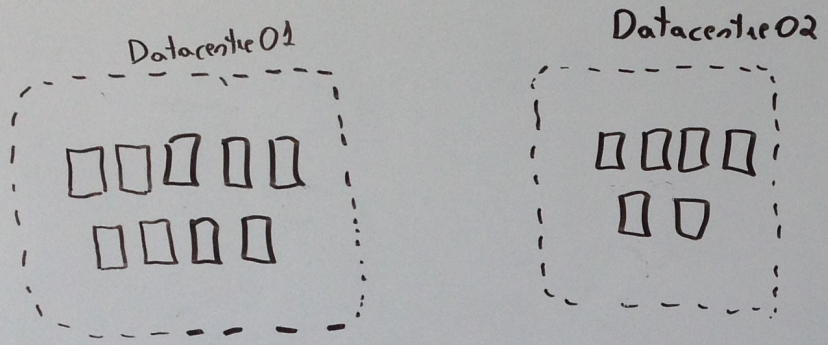

JUNE
2008
Datacentre 01
Datacentre 02
OPS
DEVS


JUNE
2008
Datacentre 01
Datacentre 02
OPS
DEPLOY
FAST!
DEVS

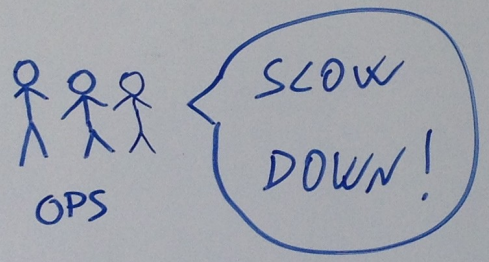

JUNE
2008
Datacenter 01
Datacenter 02
AT YOUR SERVICE!
OPS
DEVS

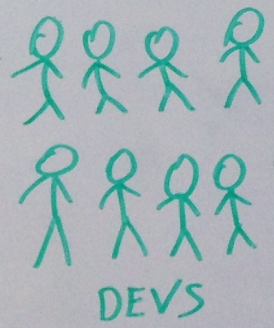

JUNE
2008
Datacenter 01
Datacenter 02
INCIDENT
OPS
DEVS

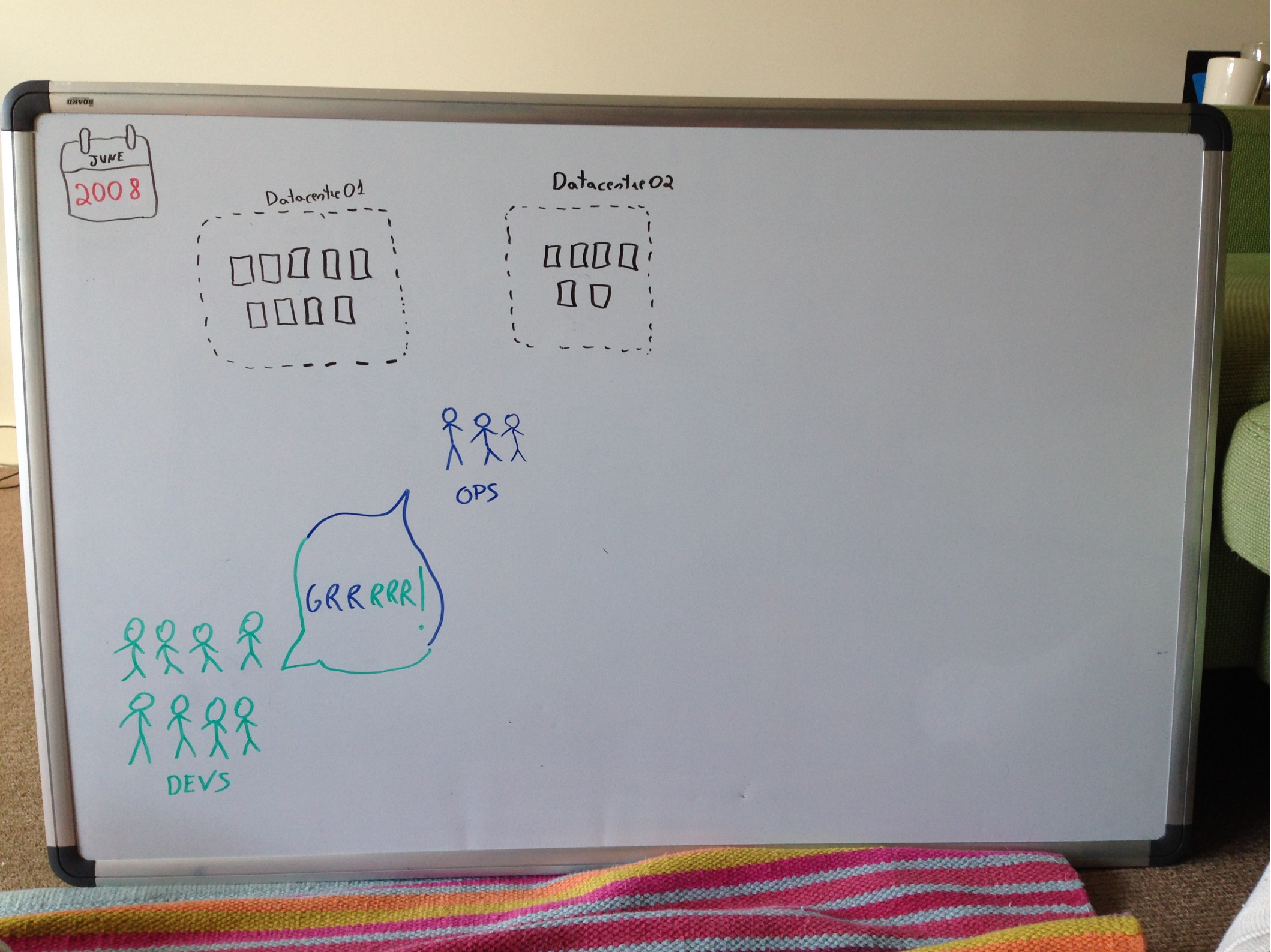
JUNE
2008

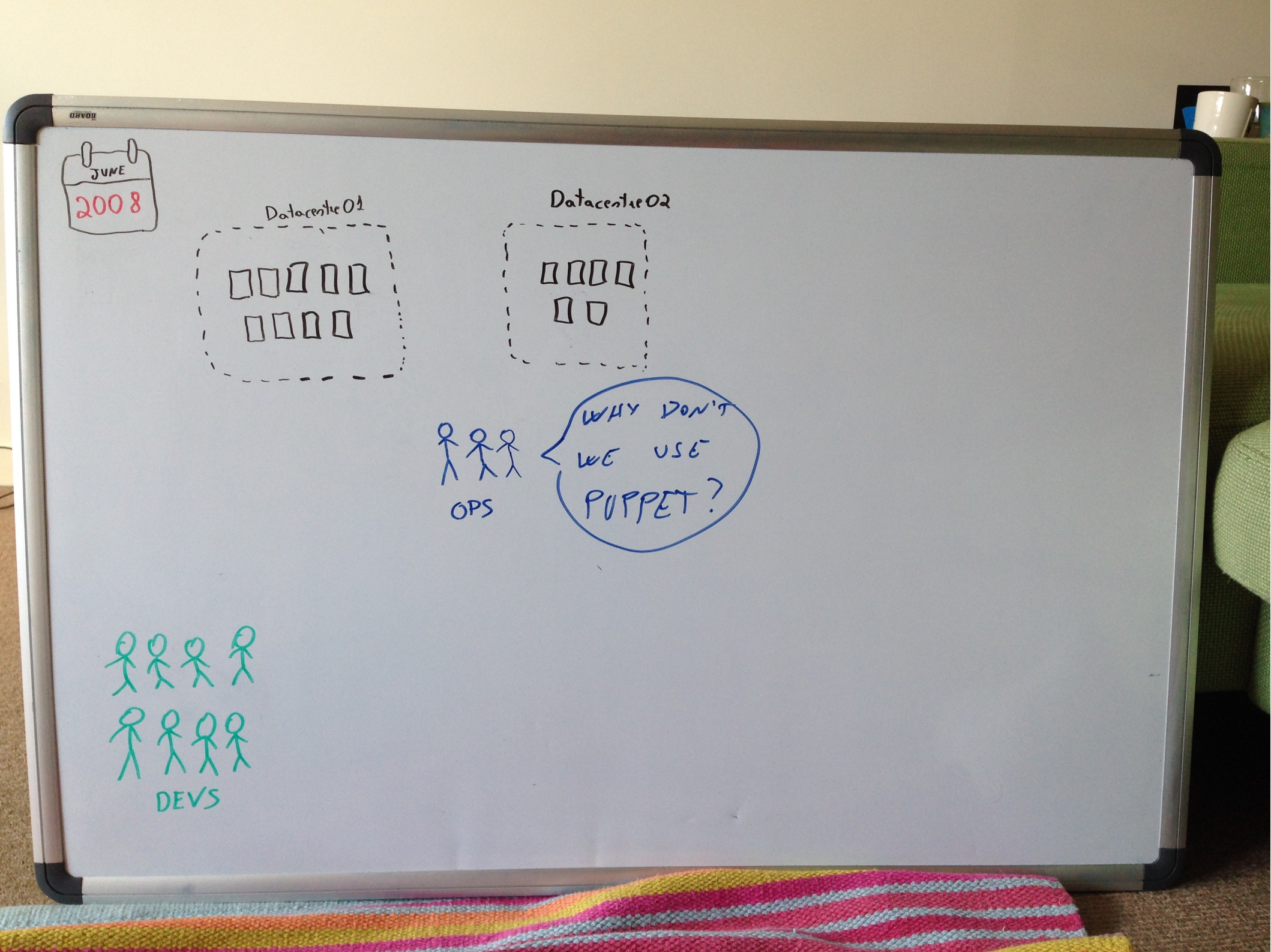

Datacenter 01

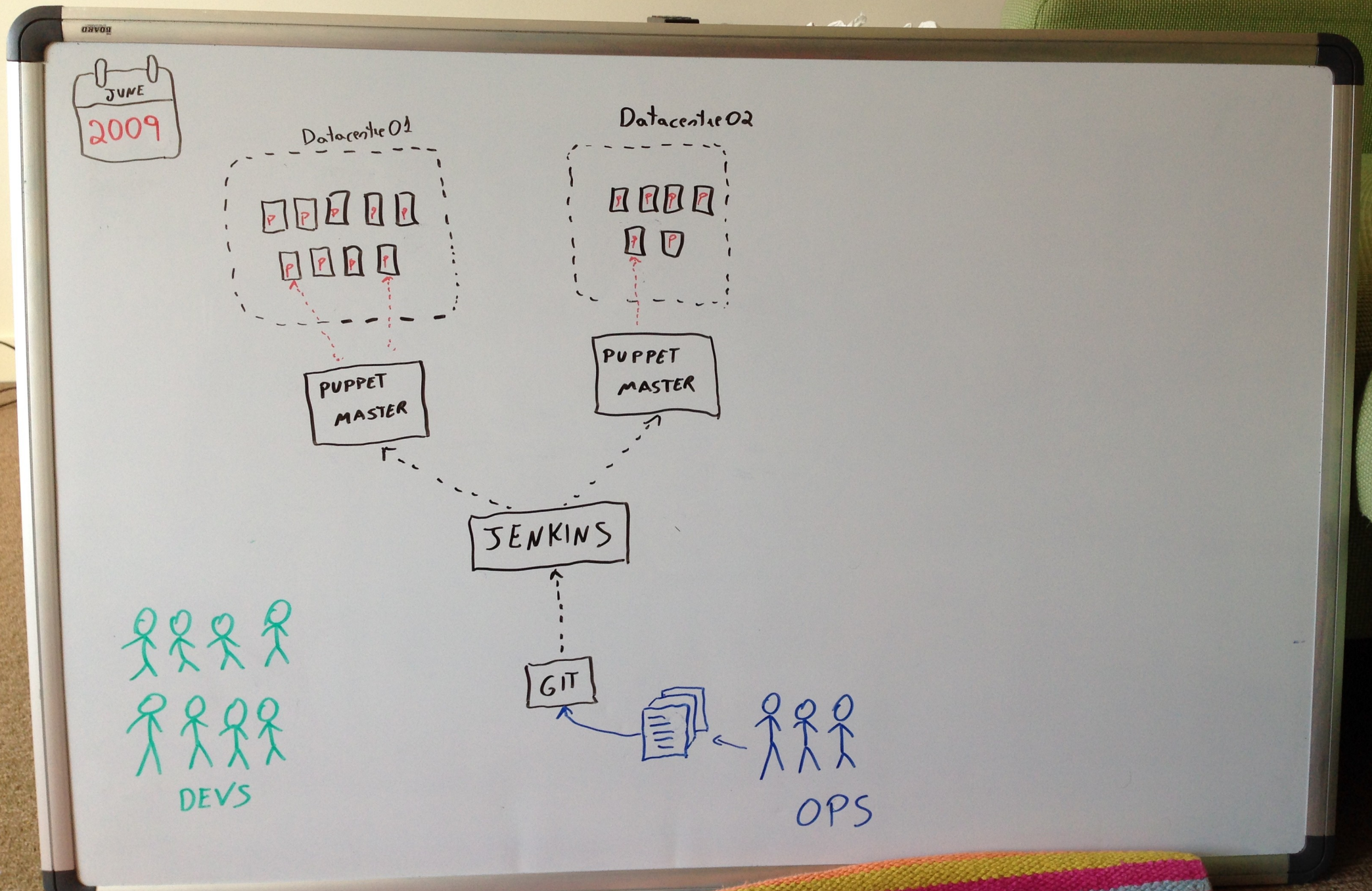
Datacenter 02

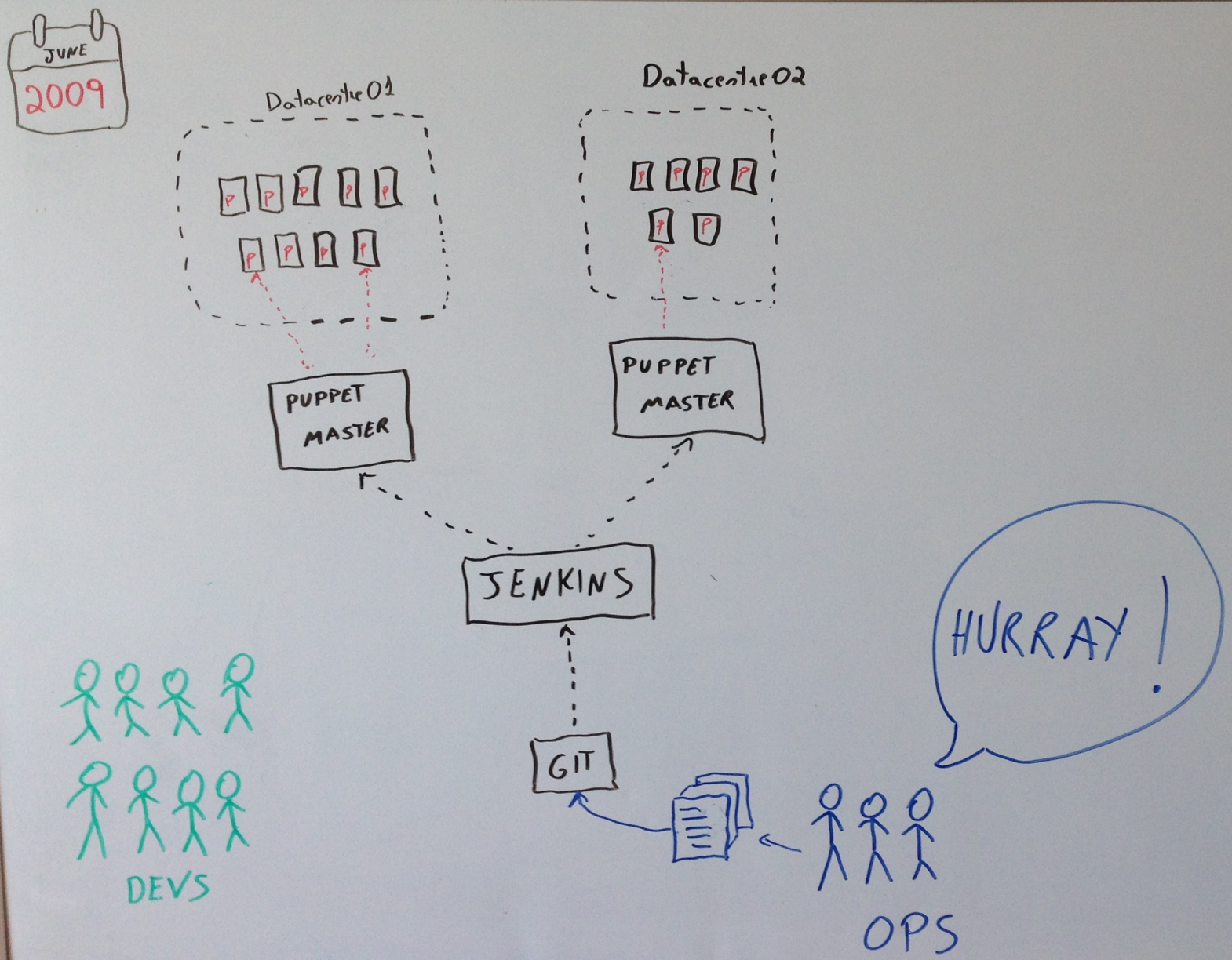

SLOW DOWN!
OPS

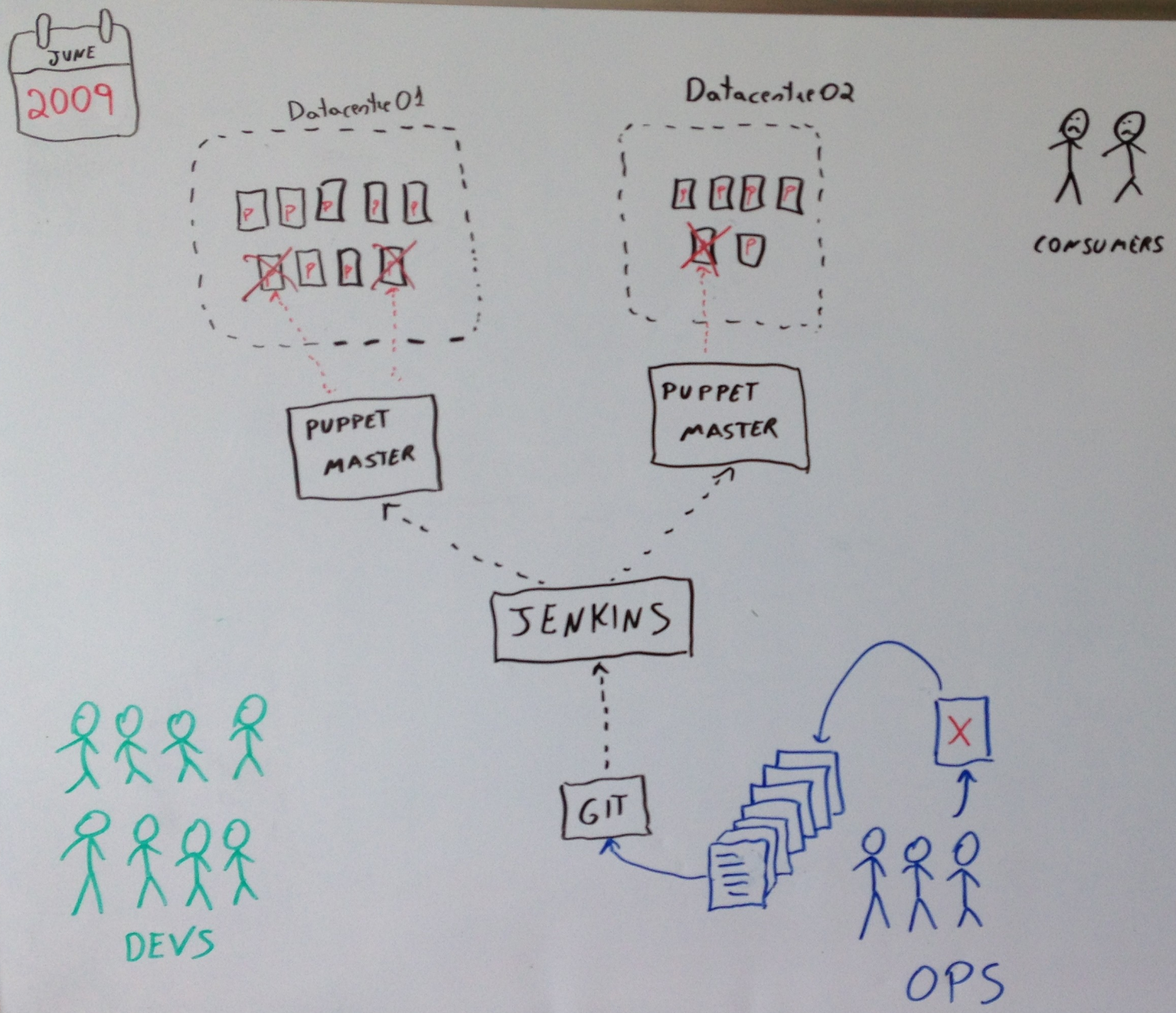

DEVS

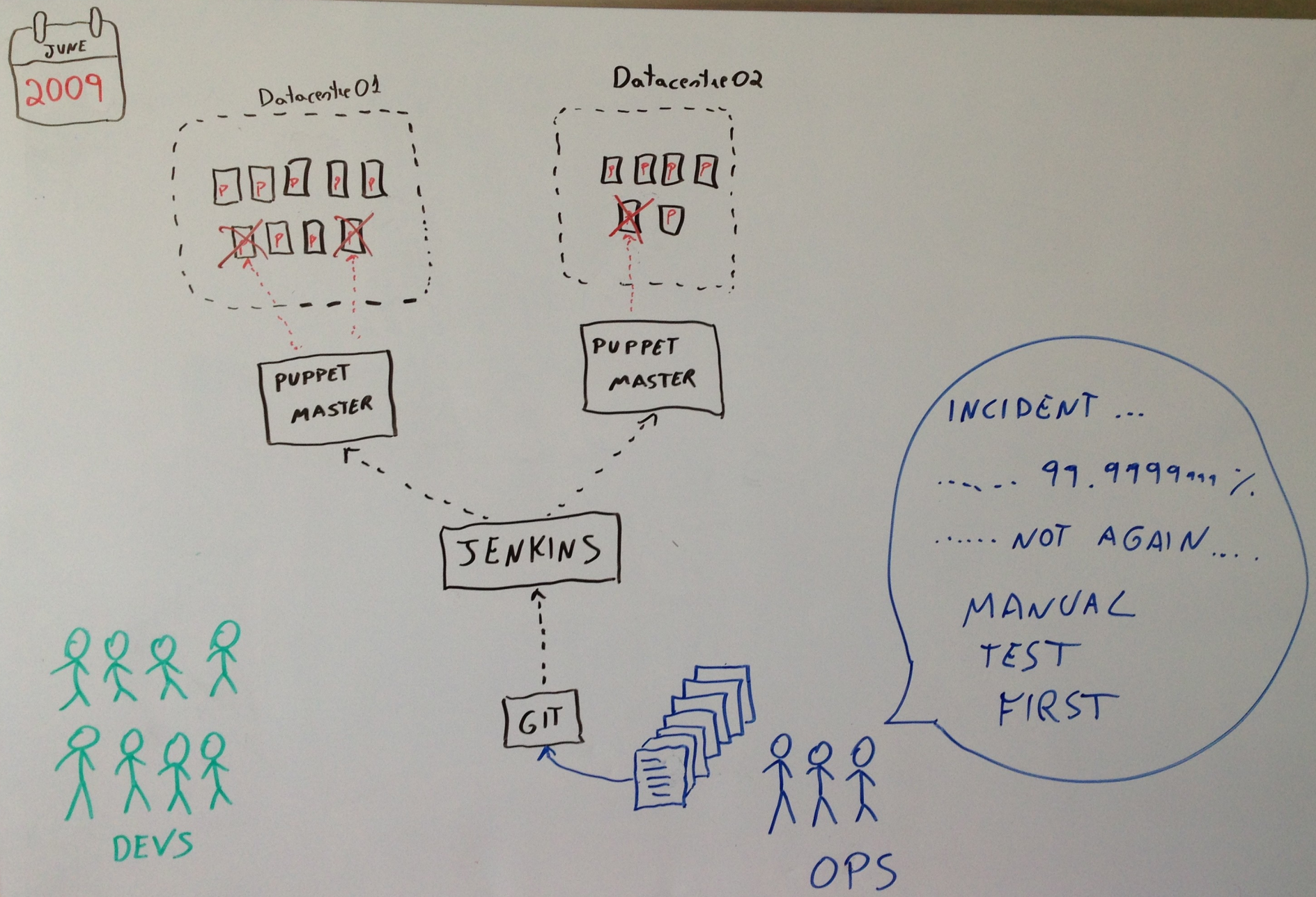

JUNE
2008
Datacenter 01
Datacenter 02
OPS
GRRRRR!
DEVS

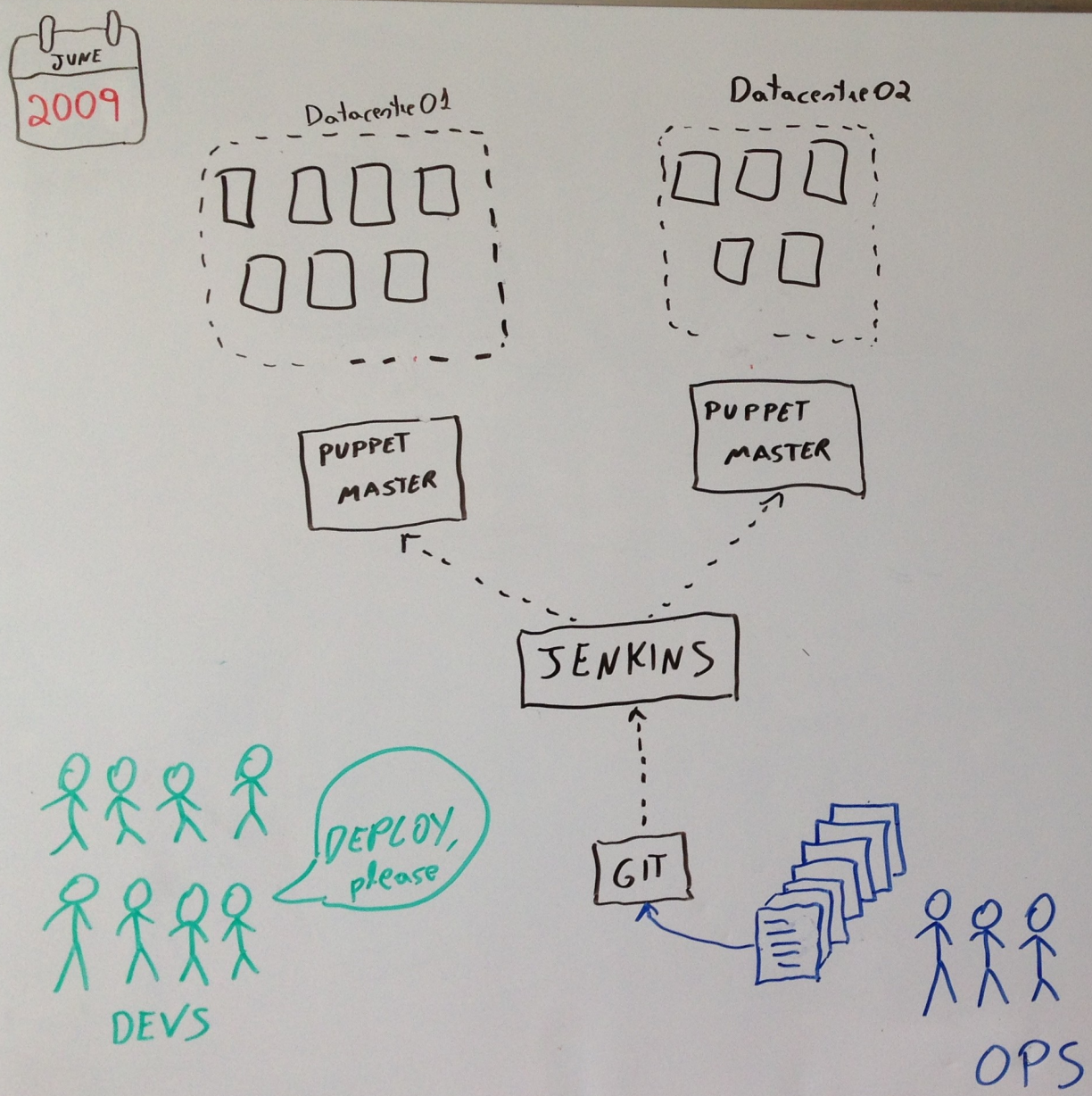

JUNE
2008
Datacentre 01
Datacentre 02
OPS
WHY DON'T WE USE PUPPET?
DEVS

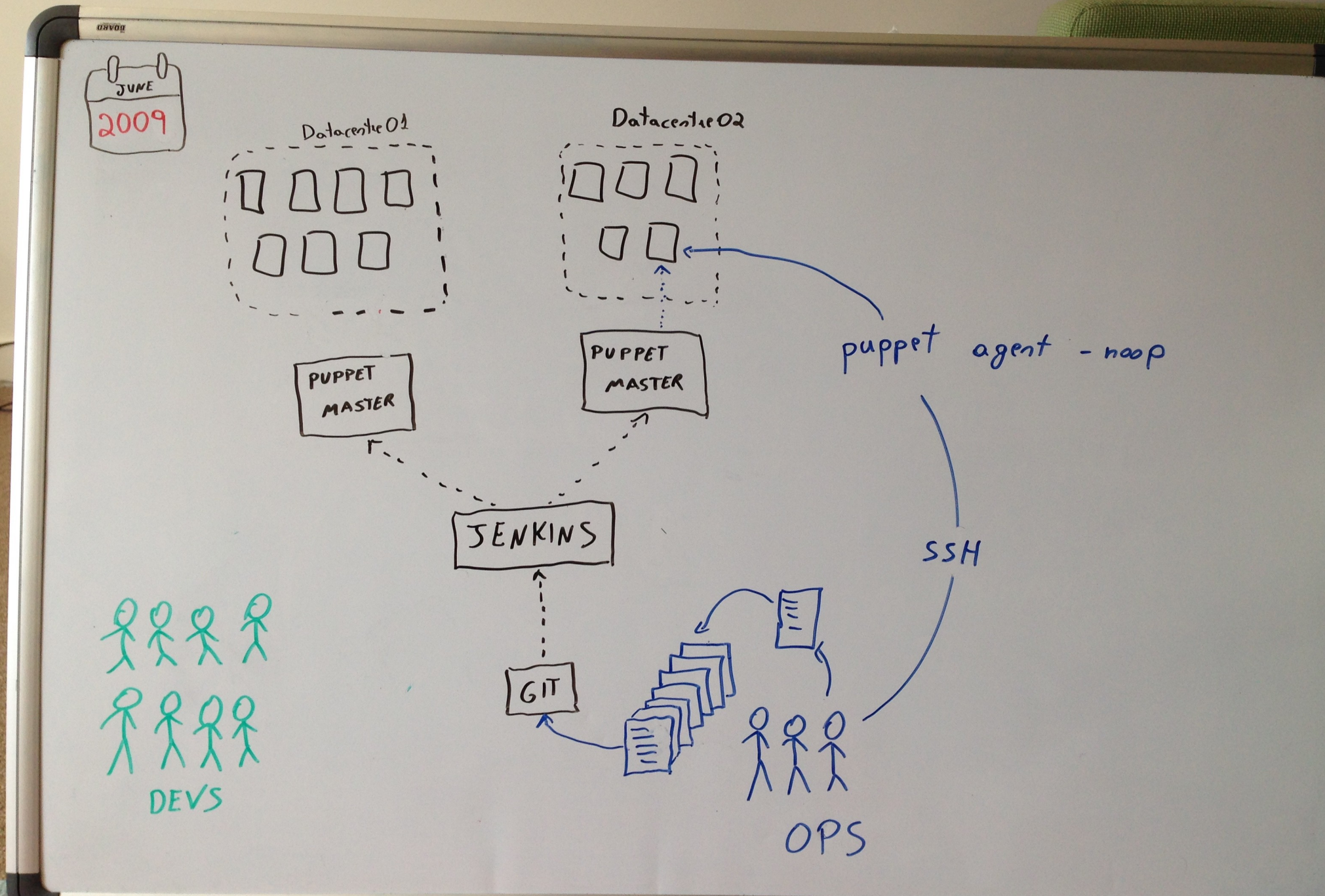

JUNE
2009
Datacentre 01
Datacentre 02
PUPPET MASTER
PUPPET MASTER
JENKINS
GIT
DEVS
OPS

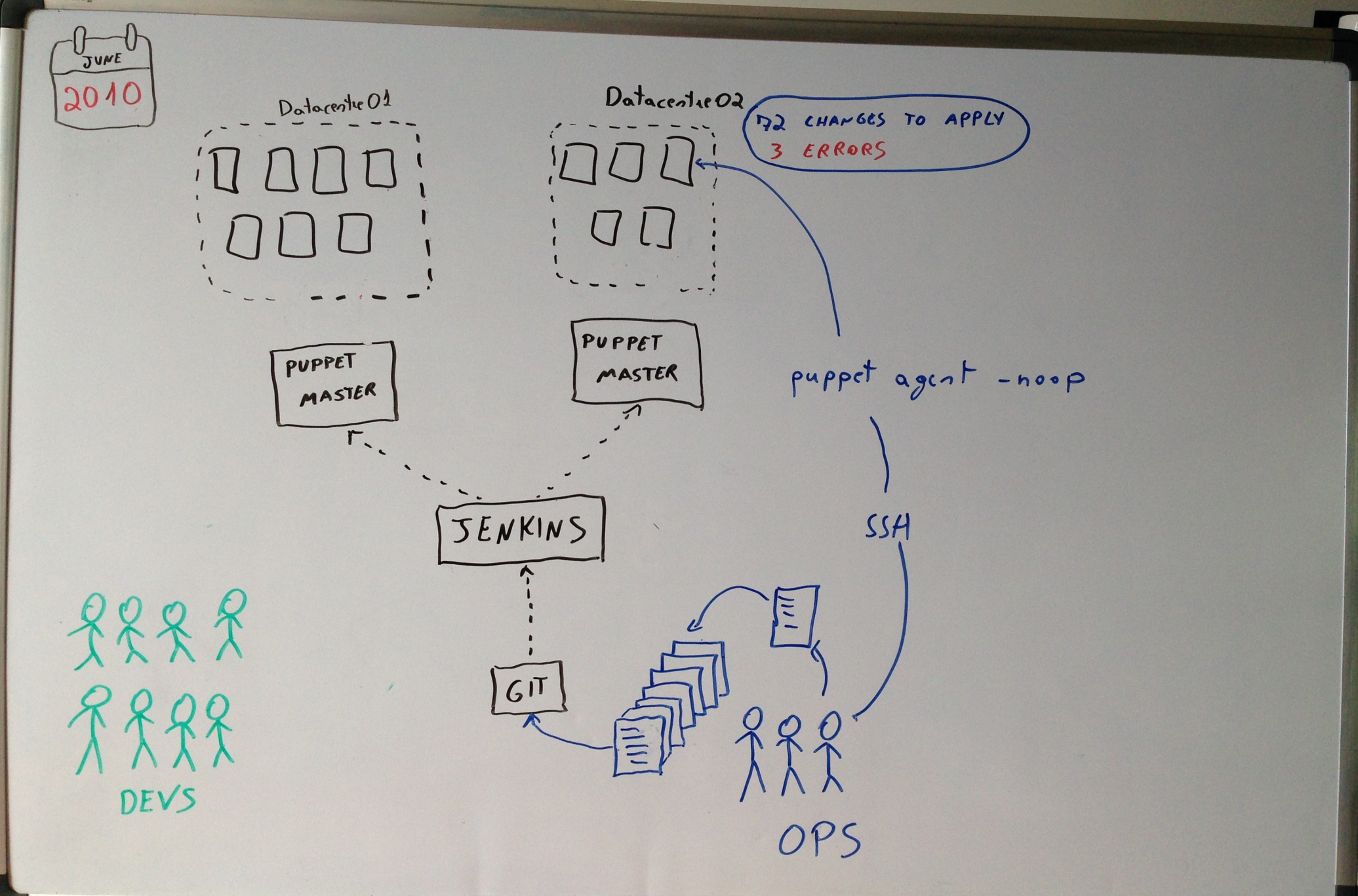

JUNE
2009
Datacentre 01
Datacentre 02
PUPPET MASTER
PUPPET MASTER
JENKINS
GIT
HURRAY!
DEVS
OPS

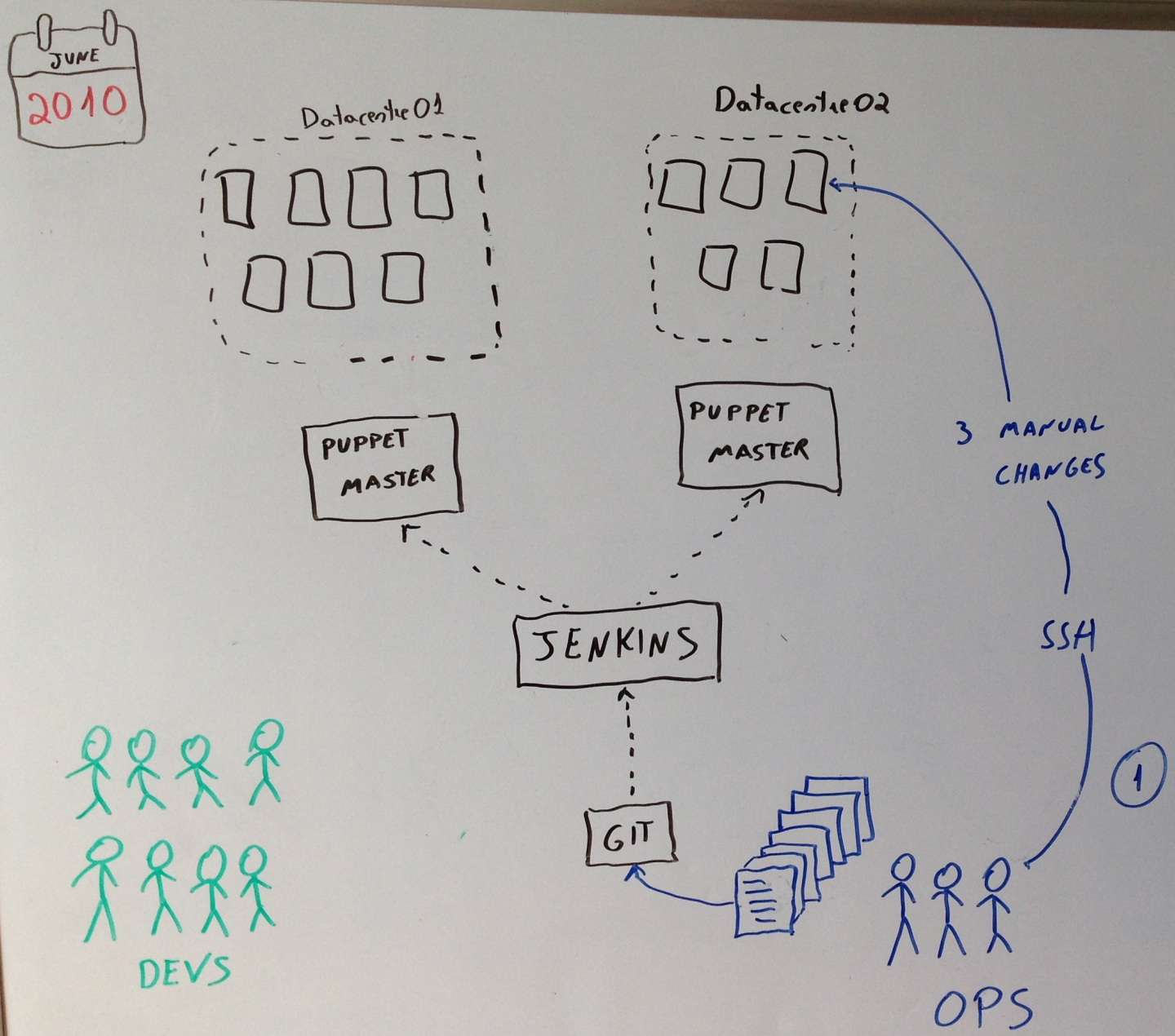

JUNE
2009
Datacenter 01
Datacenter 02
CONSUMERS
PUPPET MASTER
PUPPET MASTER
JENKINS
GIT
X
DEVS
OPS

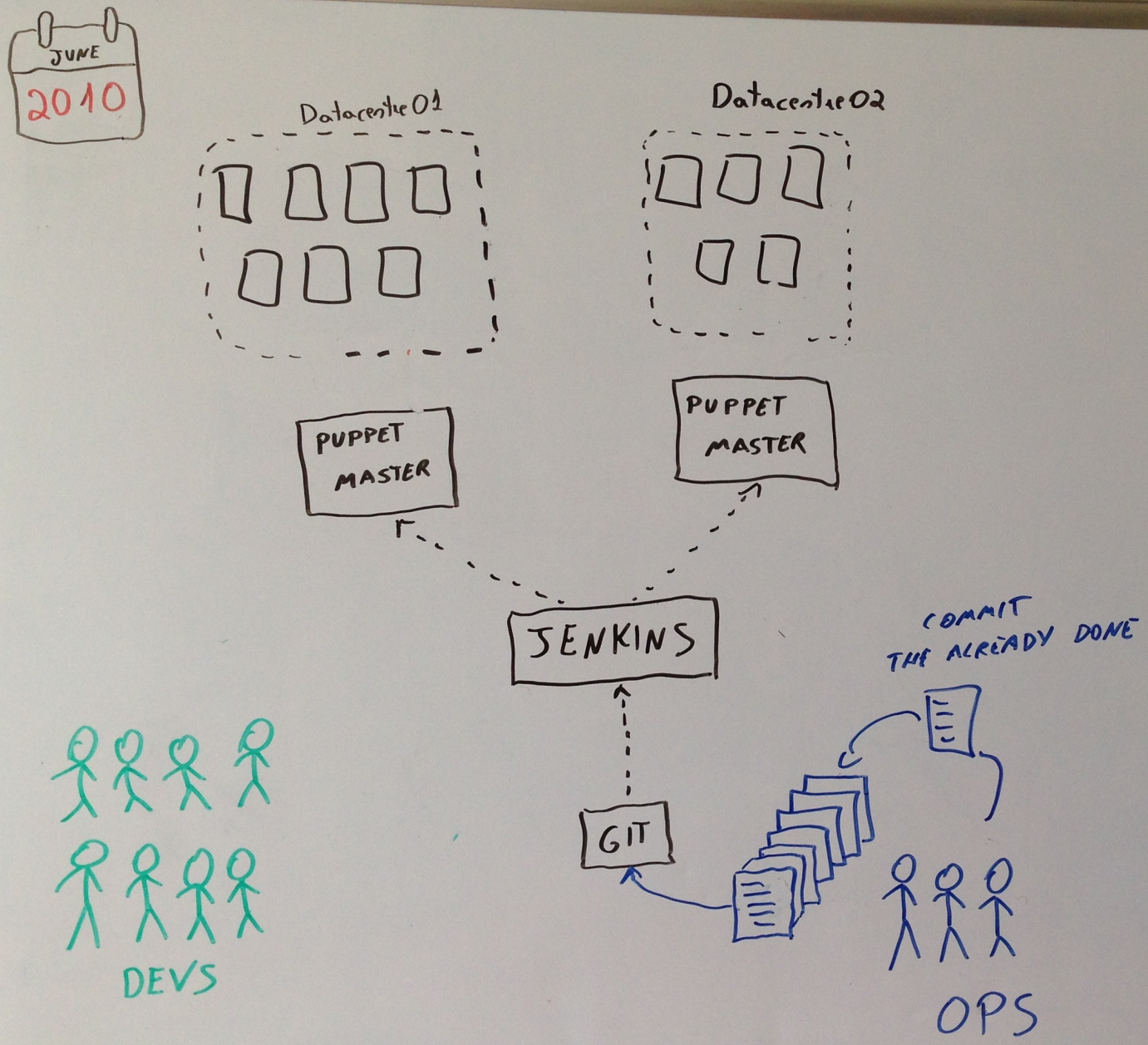

JUNE
2009
Datacentre 01
Datacentre 02
PUPPET MASTER
PUPPET MASTER
JENKINS
GIT
DEVS
OPS
INCIDENT ...
..... 99.9999... %
..... NOT AGAIN....
MANUAL TEST FIRST

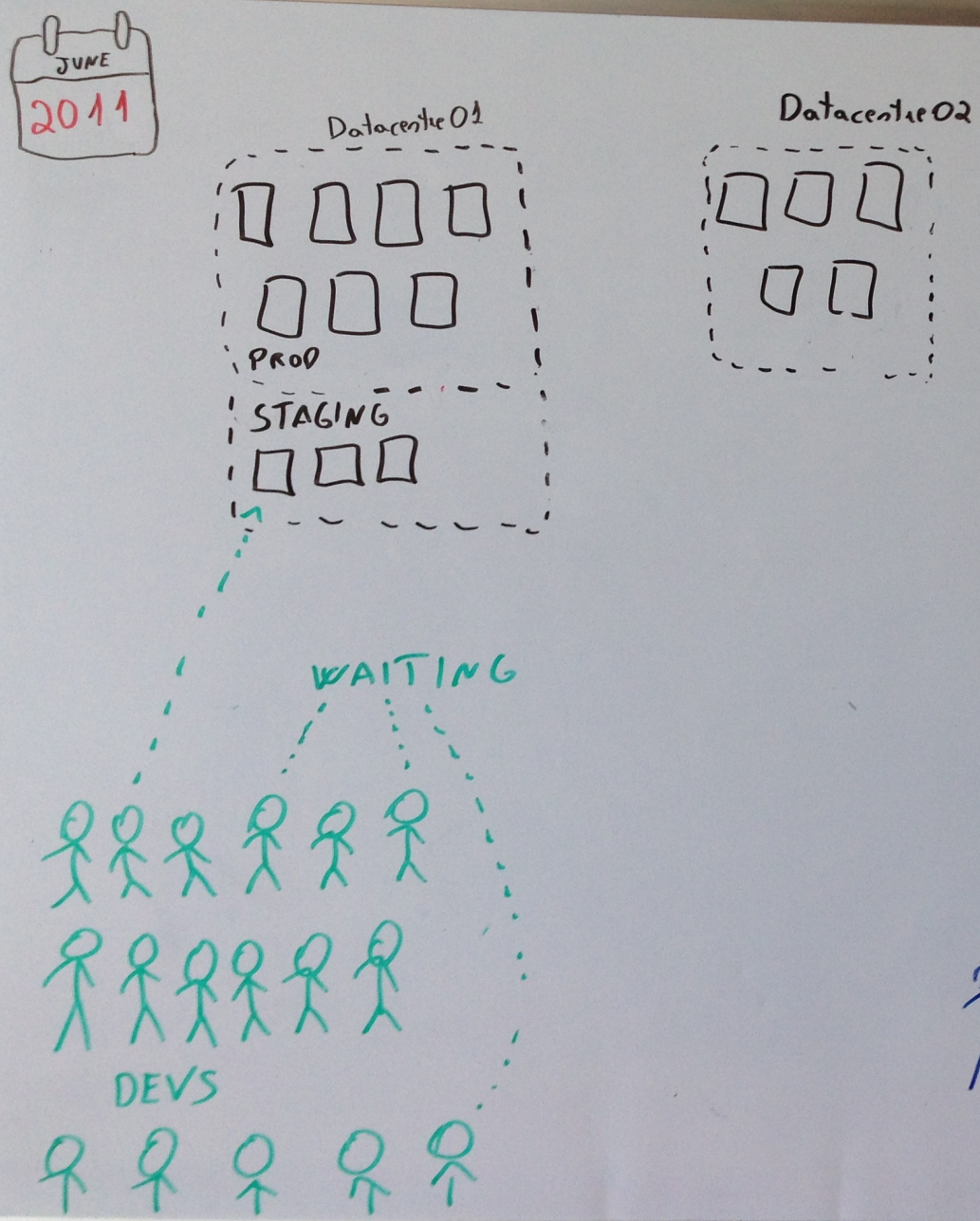

JUNE
2009
Datacenter 01
Datacenter 02
PUPPET MASTER
PUPPET MASTER
JENKINS
GIT
DEPLOY, please
DEVS
OPS


JUNE
2009
Datacentre 01
Datacentre 02
PUPPET MASTER
PUPPET MASTER
JENKINS
GIT
puppet agent -noop
SSH
DEVS
OPS

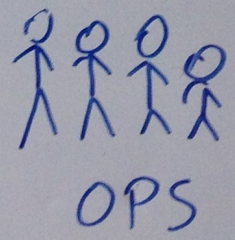

JUNE
2010
Datacentre 01
Datacentre 02
172 CHANGES TO APPLY
3 ERRORS
PUPPET MASTER
PUPPET MASTER
puppet agent -noop
SSH
JENKINS
GIT
DEVS
OPS

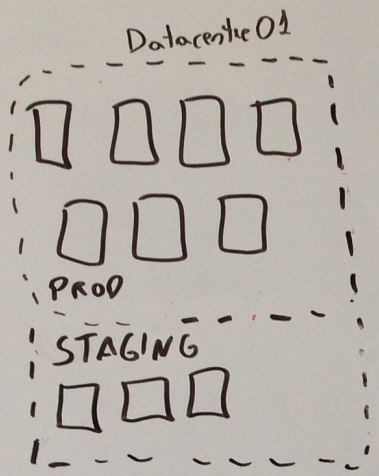

JUNE
2010
Datacentre 01
Datacentre 02
PUPPET MASTER
PUPPET MASTER
3 MANUAL CHANGES
SSH
1
JENKINS
GIT
DEVS
OPS

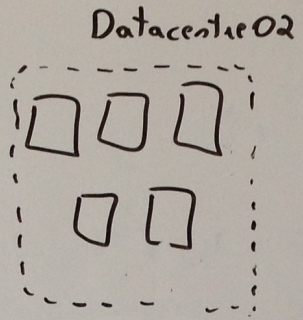

JUNE
2010
Datacentre 01
Datacentre 02
PUPPET MASTER
PUPPET MASTER
JENKINS
GIT
COMMIT THE ALREADY DONE
DEVS
OPS


JUNE
2011
Datacentre 01
PROD
STAGING
WAITING
DEVS

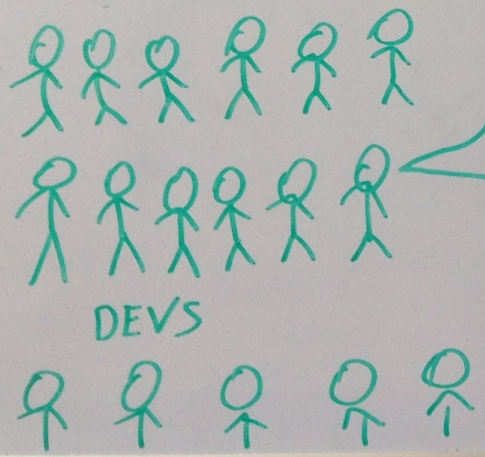
Datacentre 02

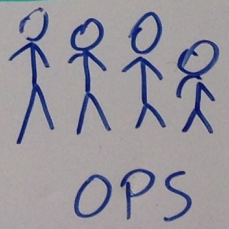

OPS

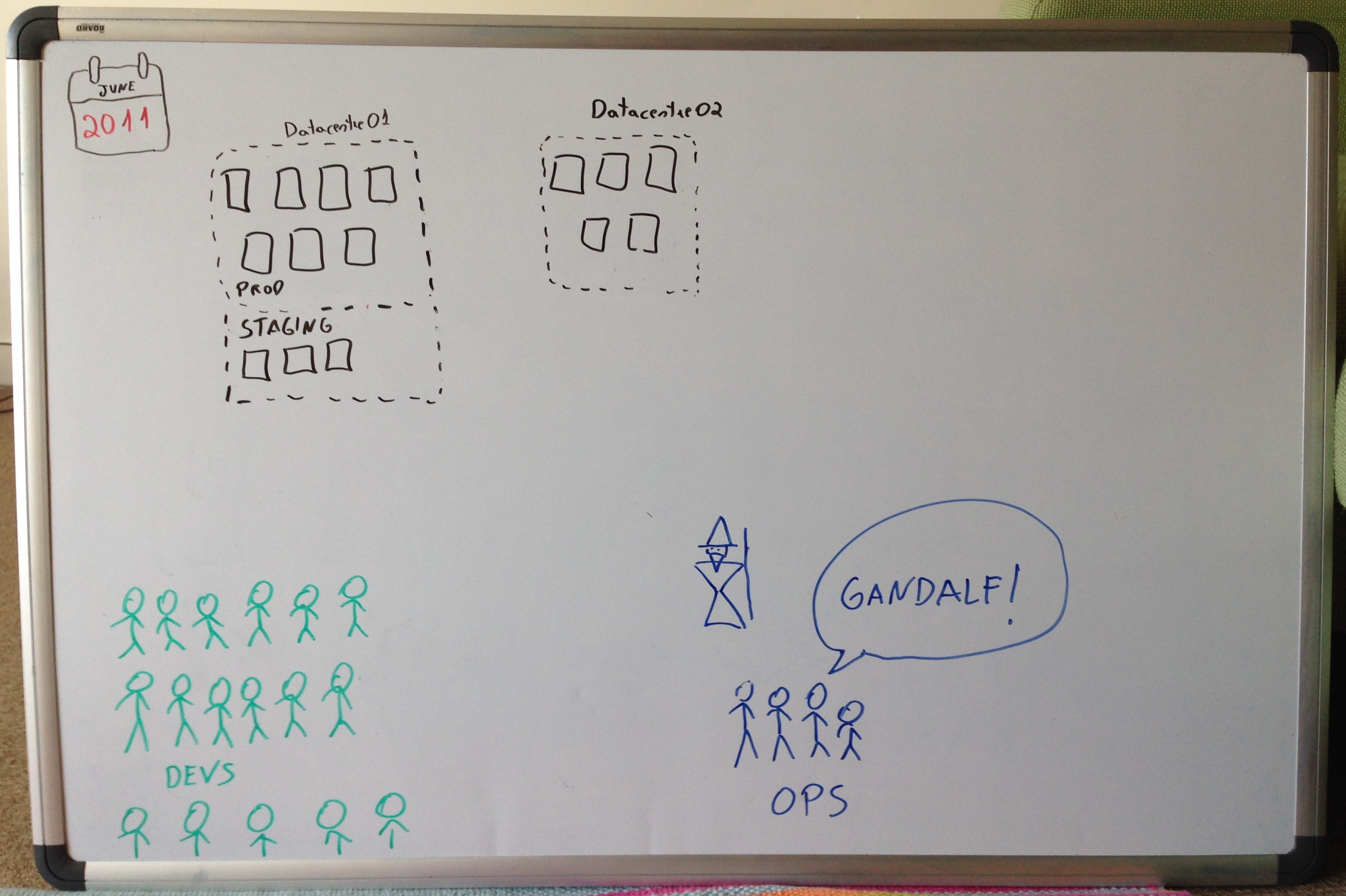


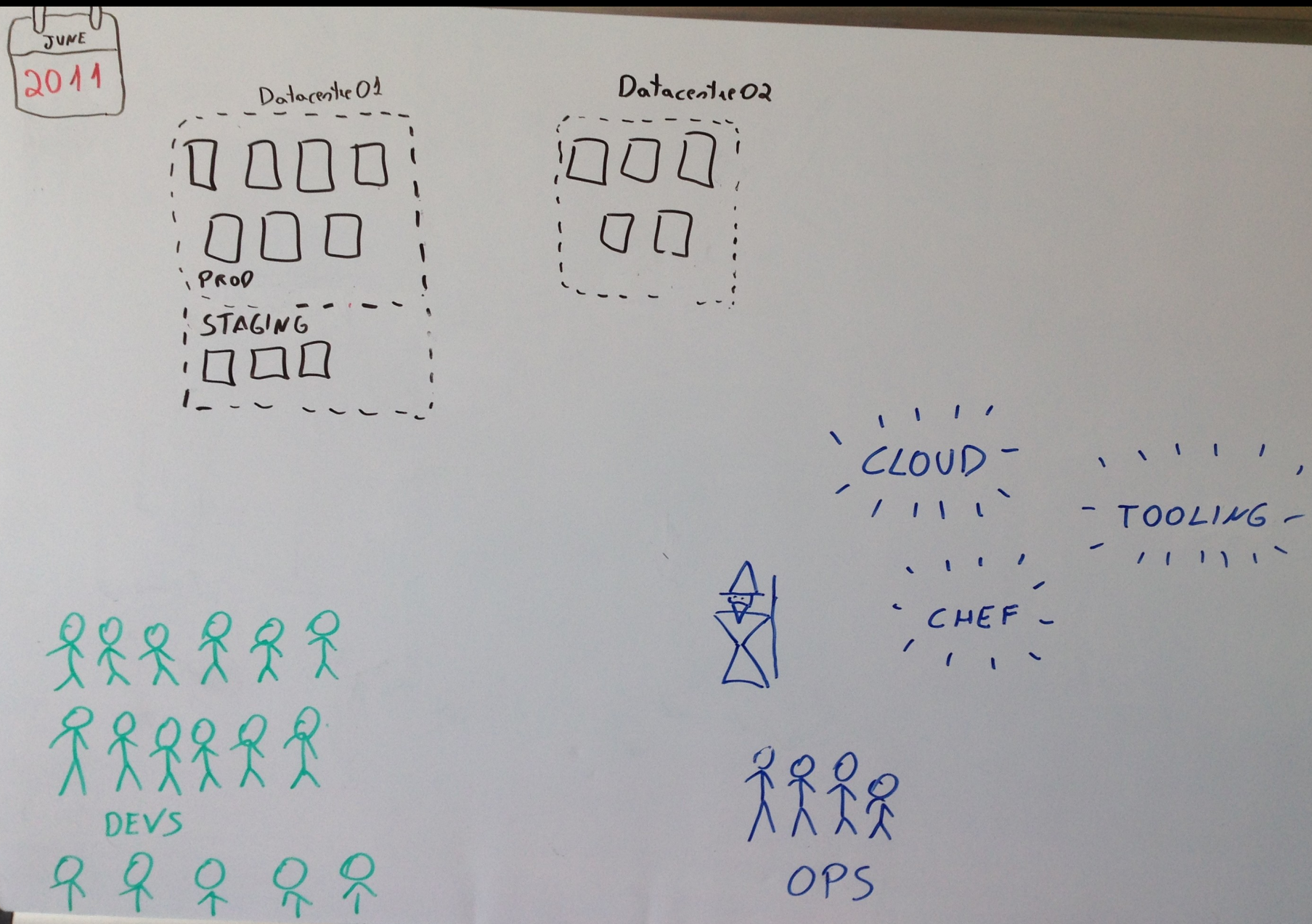


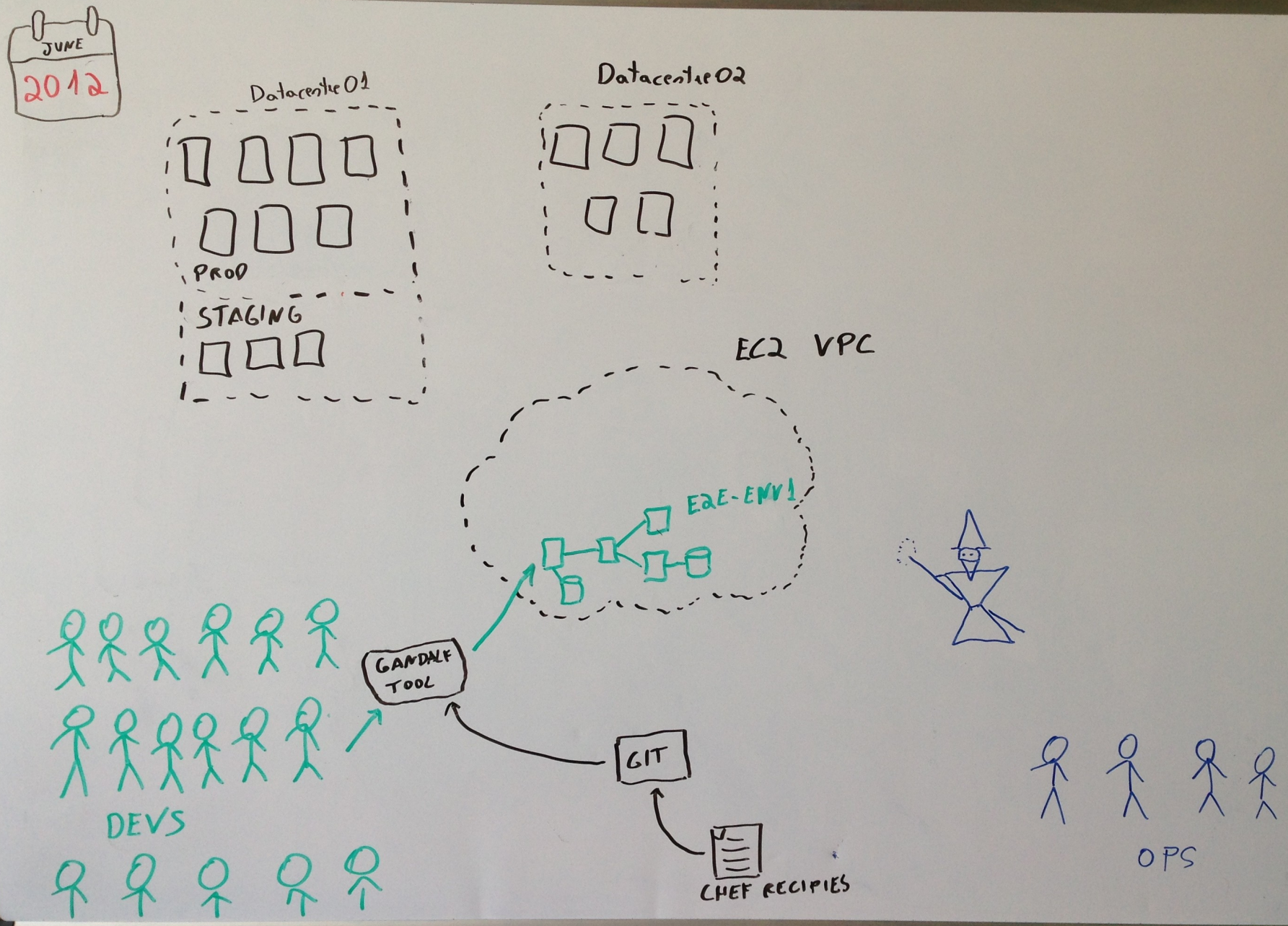
AS A DEV I WANT TO TEST MY CHANGES IN A PROD-LIKE ENVIRONMENT AS EARLY IN THE PROCESS AS POSSIBLE

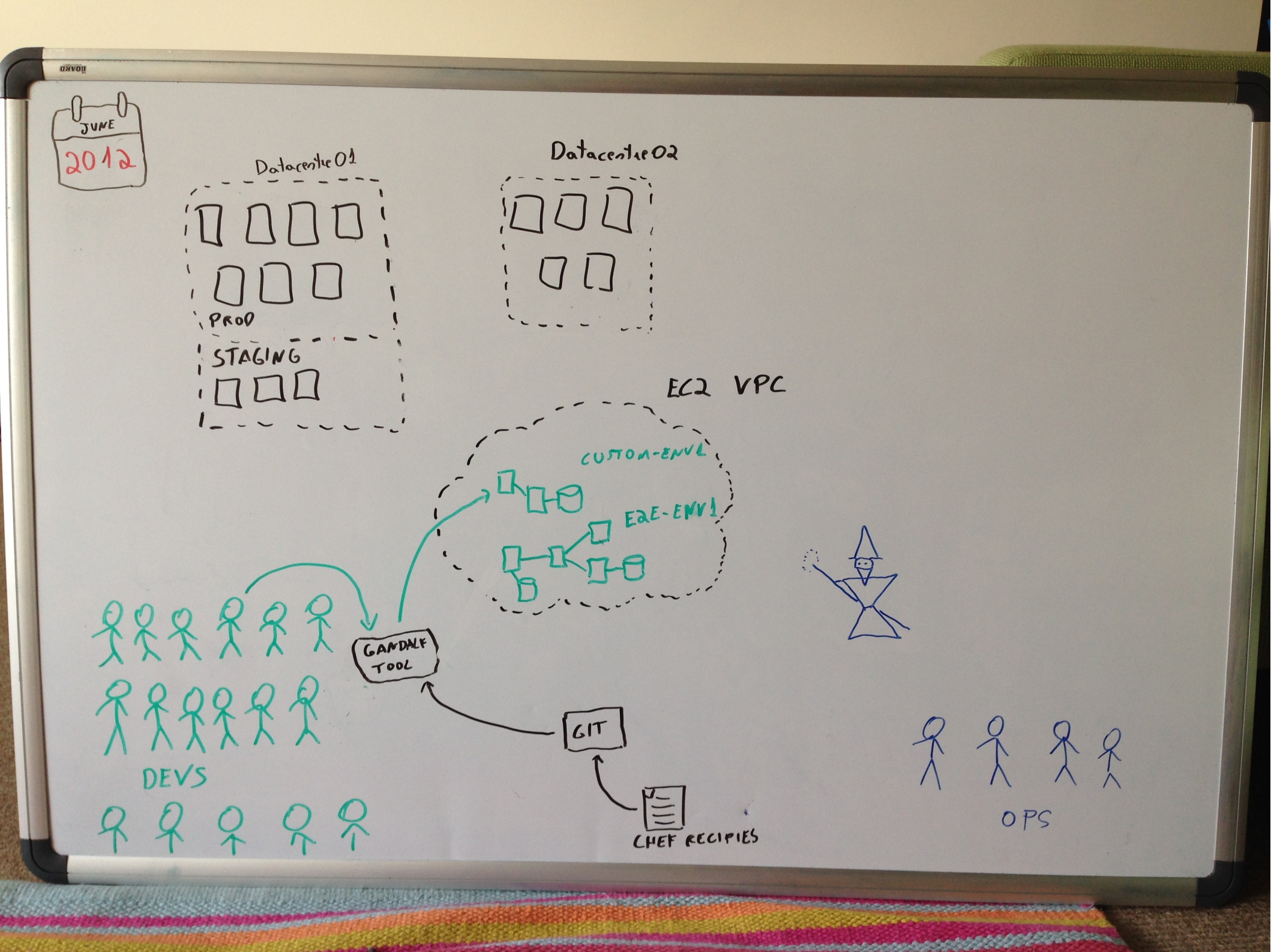


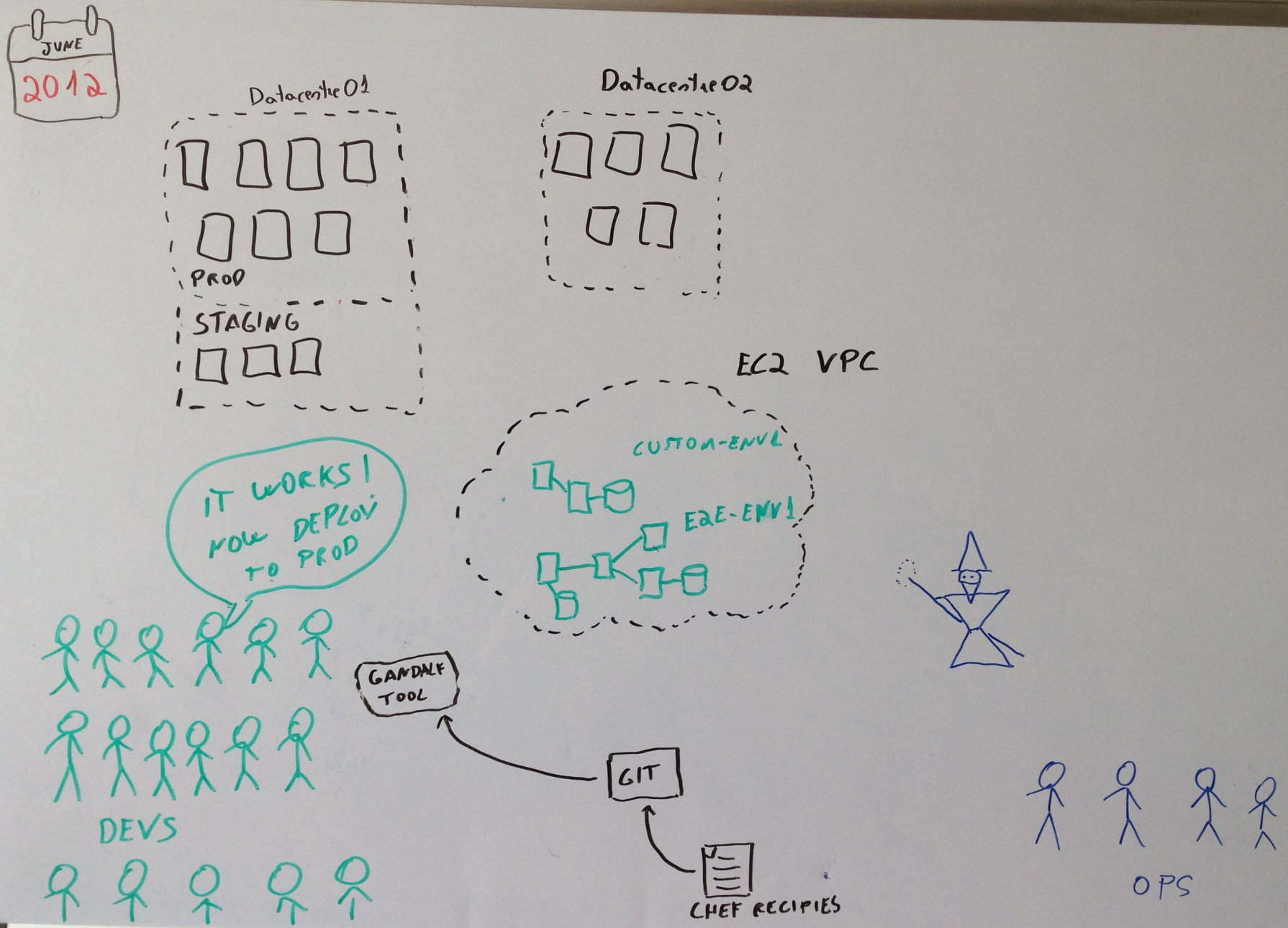


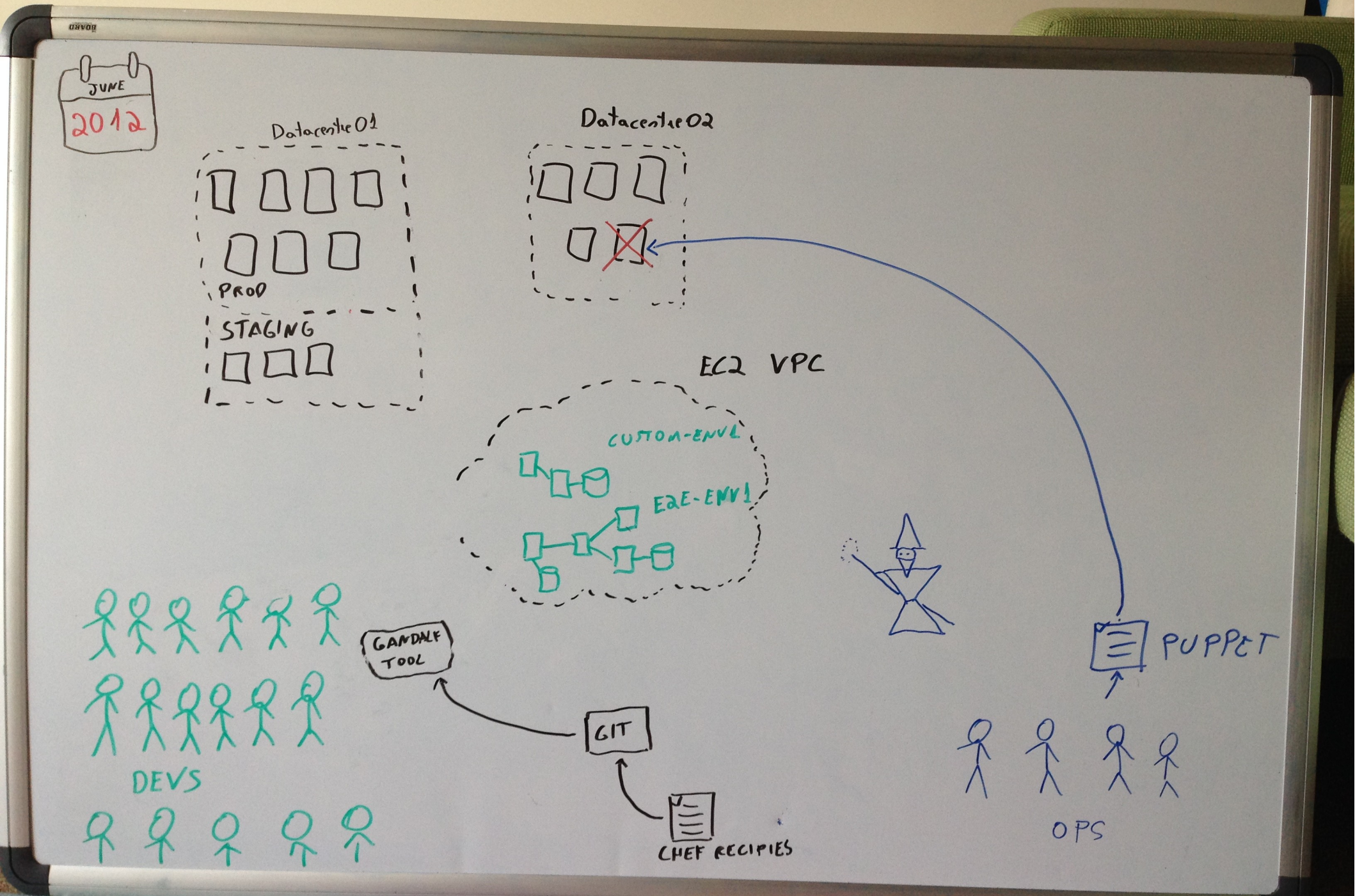

JUNE
2011
Datacentre 01
PROD
STAGING
Datacentre 02
GANDALF!
DEVS
OPS

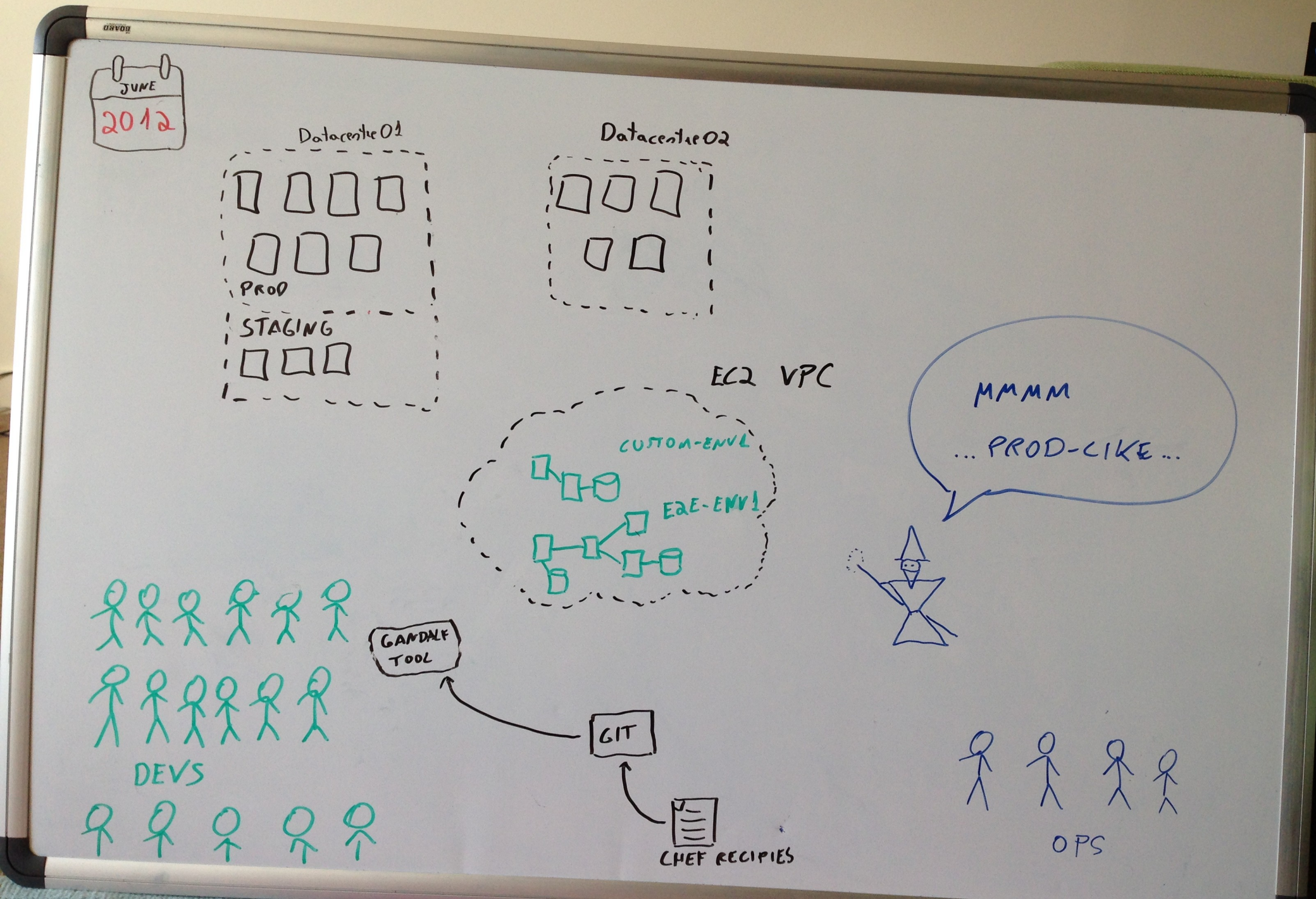

JUNE
2011
Datacentre 01
PROD
STAGING
Datacentre 02
CLOUD
TOOLING
CHEF
DEVS
OPS

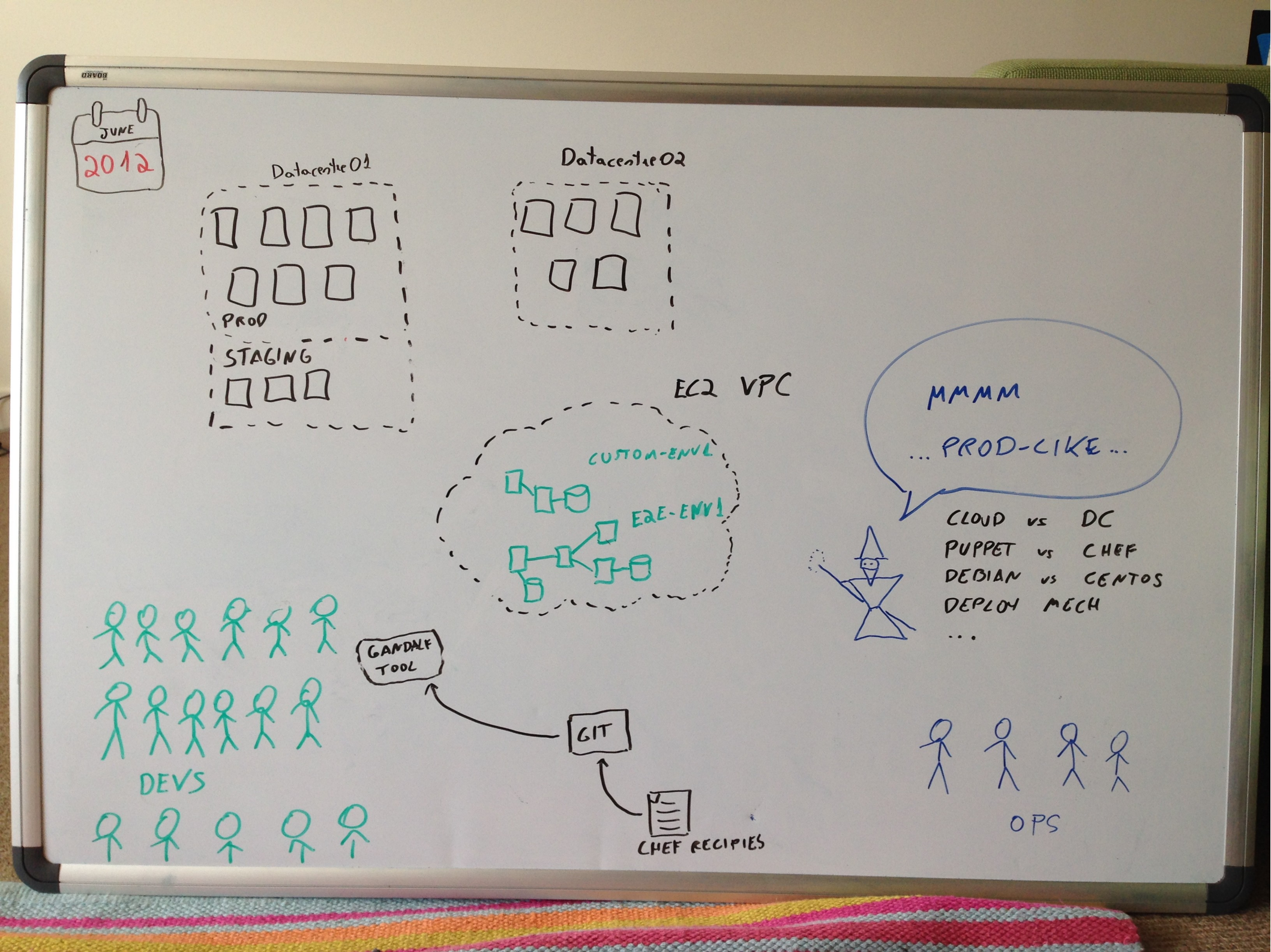

JUNE
2012
Datacentre 01
PROD
STAGING
Datacentre 02
EC2 VPC
E2E-ENV1
GANDALF TOOL
GIT
CHEF RECIPIES
DEVS
OPS

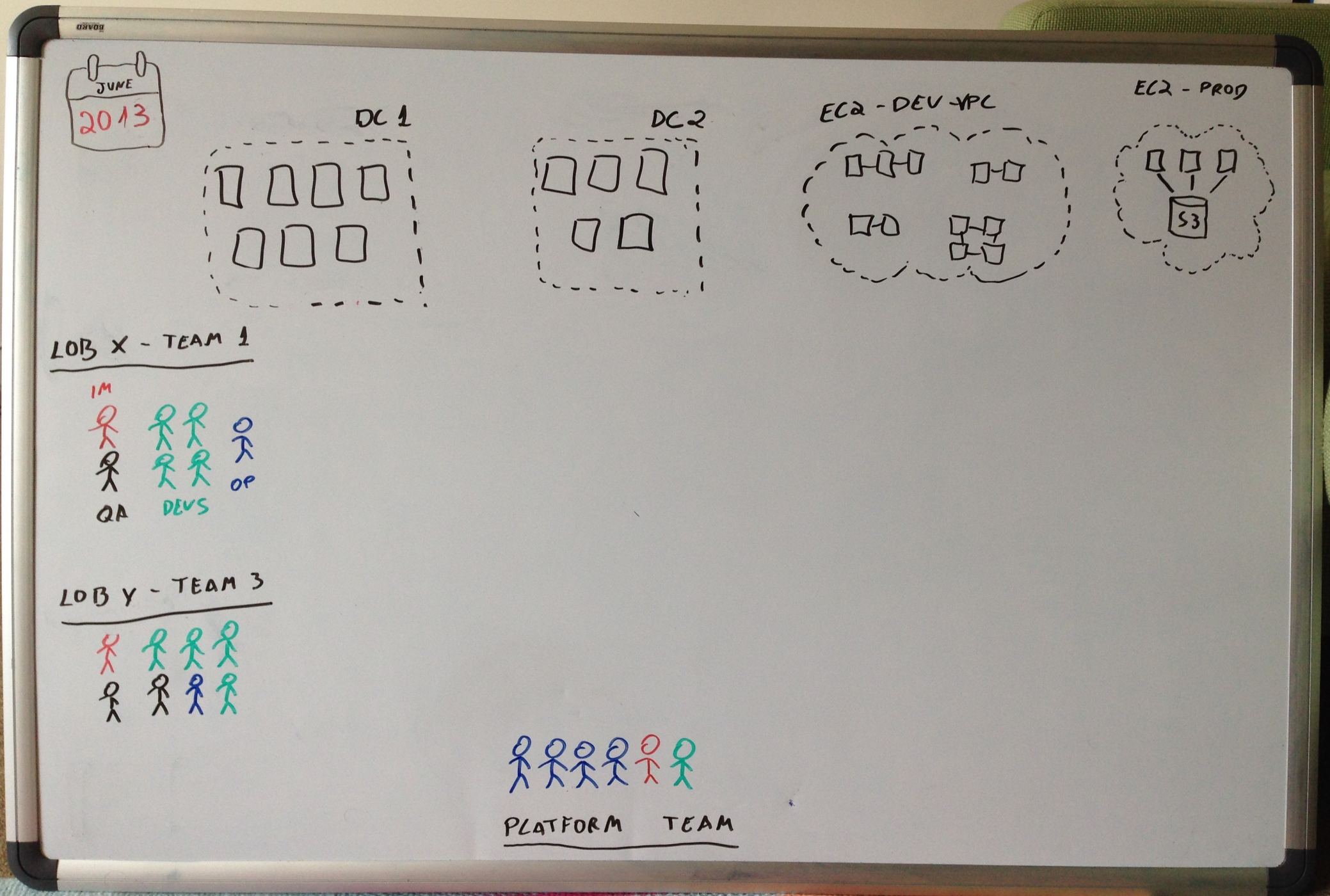

JUNE
2012
Datacentre 01
PROD
STAGING
Datacentre 02
EC2 VPC
CUSTOM-ENV1
E2E-ENV1
GANDALF TOOL
GIT
CHEF RECIPIES
DEVS
OPS

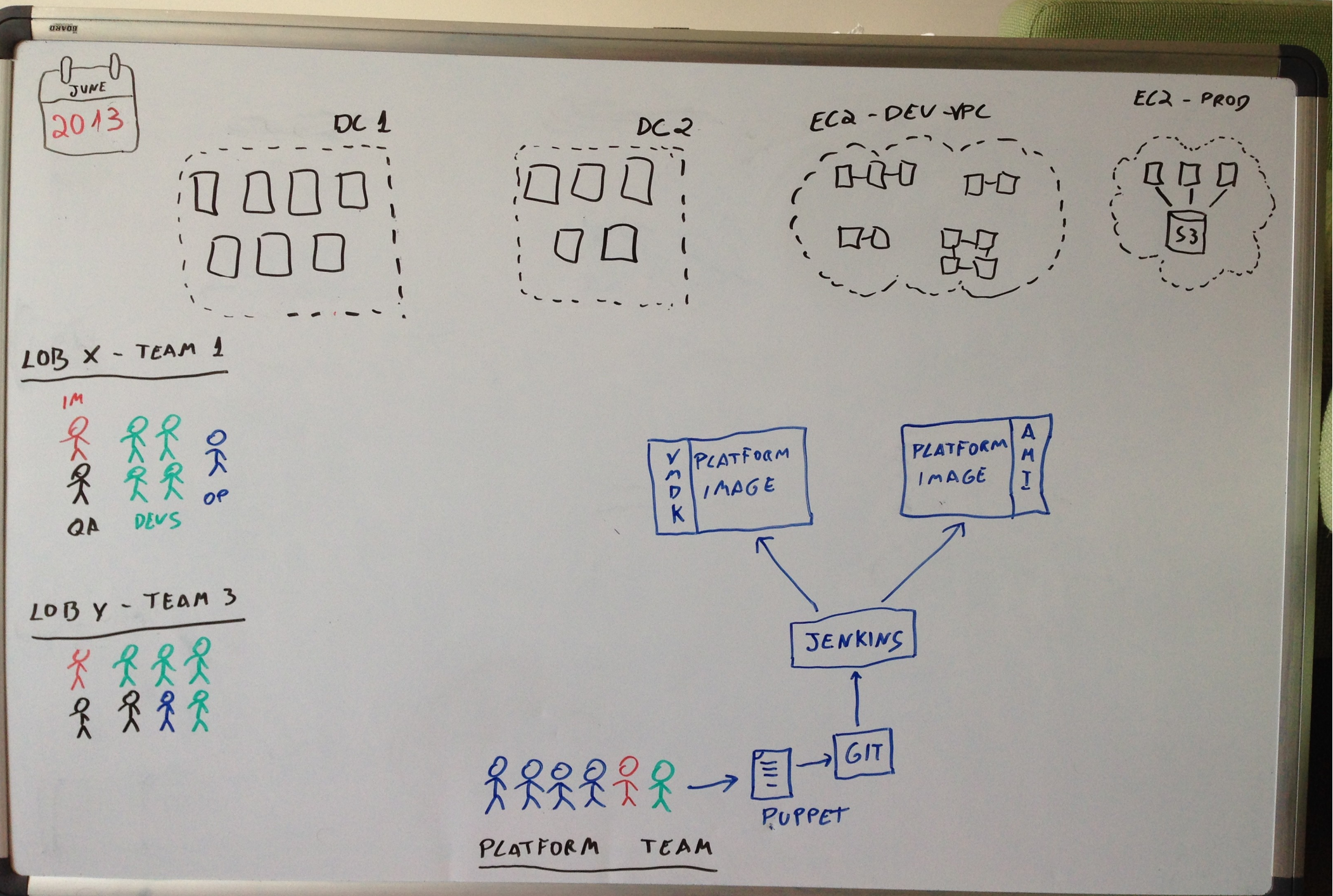

JUNE
2012
Datacenter 01
PROD
STAGING
Datacenter 02
EC2 VPC
CUSTOM-ENV1
E2E-ENV1
IT WORKS!
NOW DEPLOY
TO PROD
GANDALF
TOOL
GIT
CHEF RECIPIES
DEVS
OPS

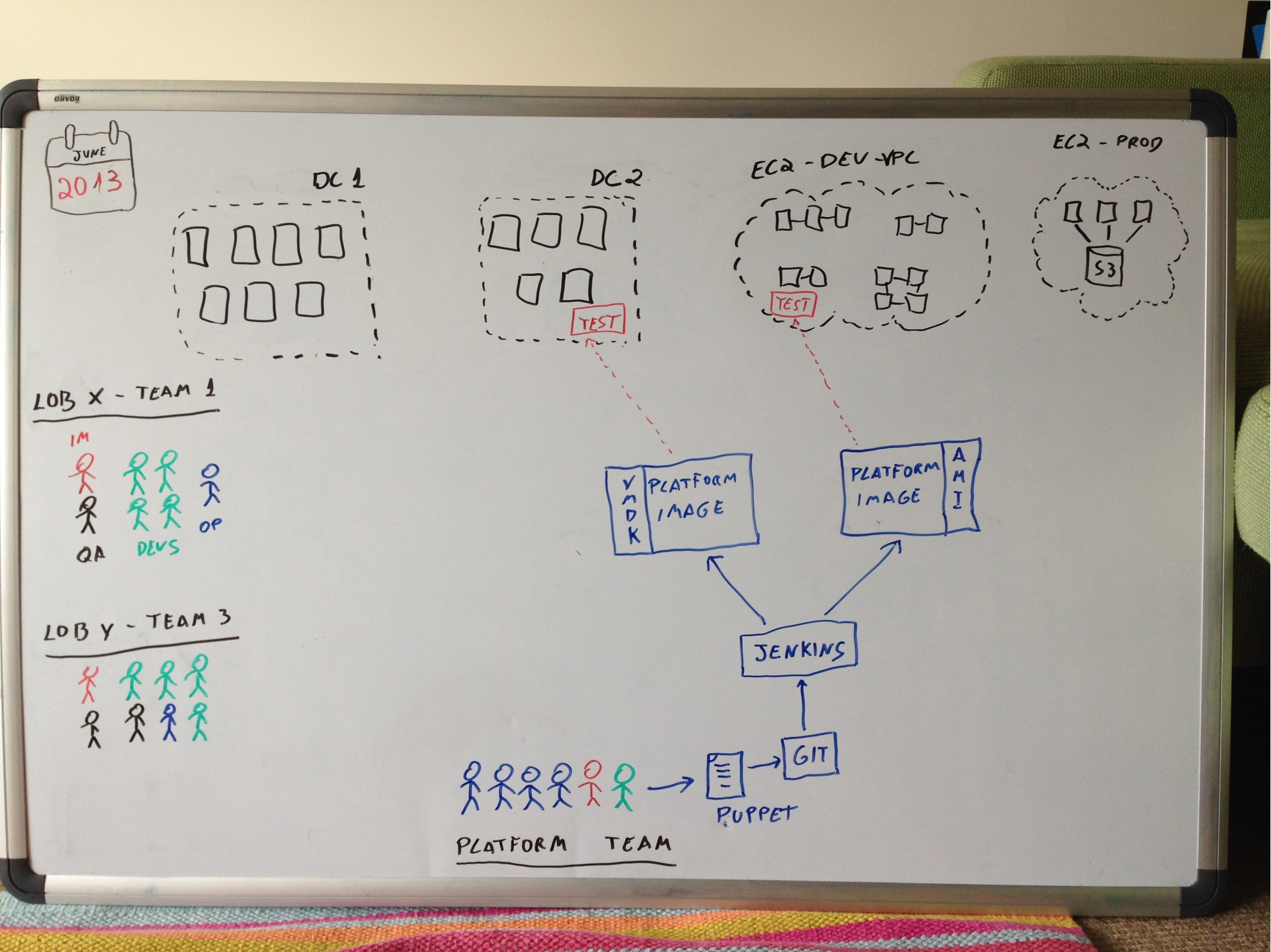

JUNE
2012
Datacentre 01
PROD
STAGING
Datacentre 02
EC2 VPC
CUSTOM-ENV1
E2E-ENV1
GANDALF TOOL
GIT
CHEF RECIPIES
PUPPET
DEVS
OPS

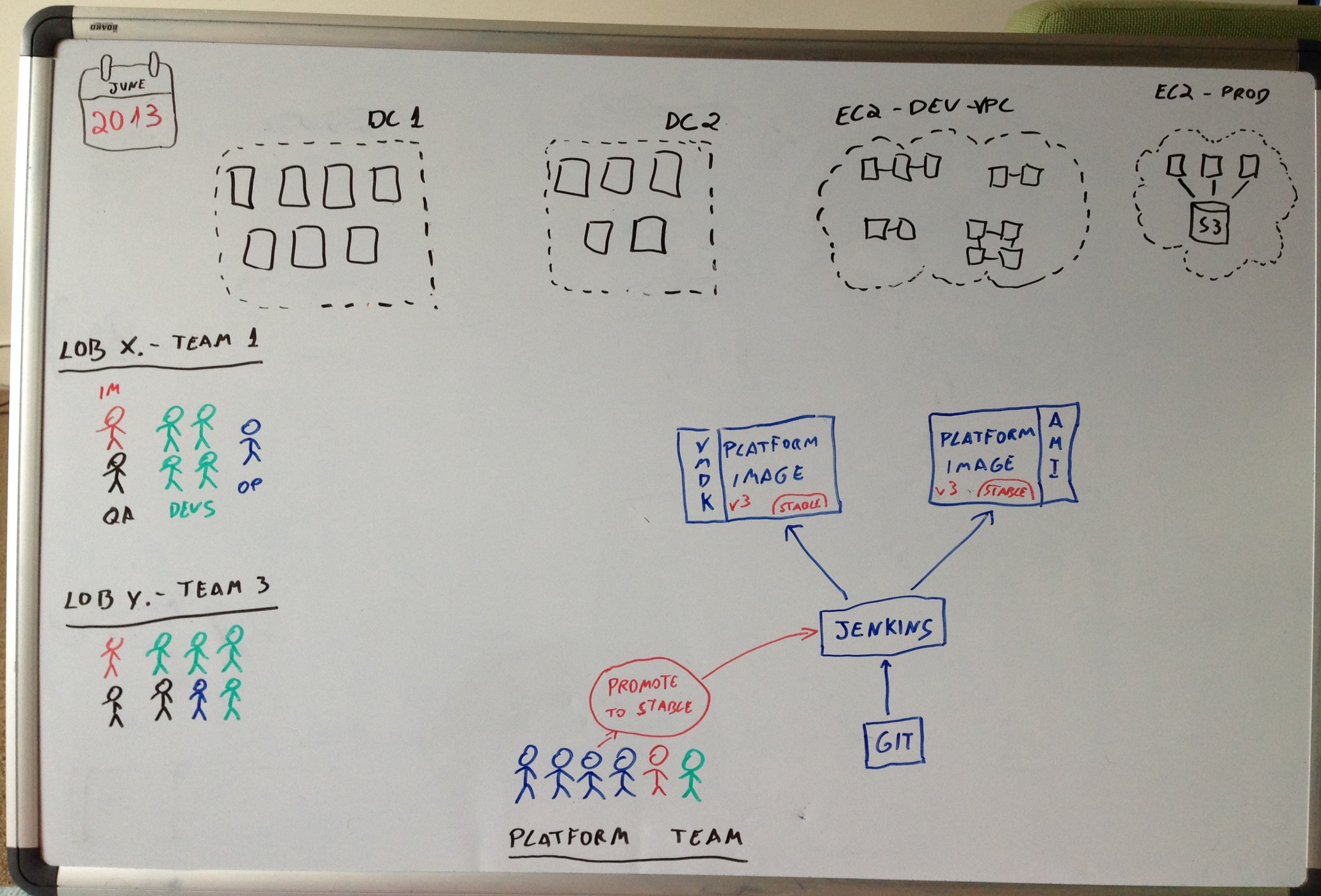

JUNE
2012
Datacenter 01
PROD
STAGING
Datacenter 02
EC2 VPC
CUSTOM-ENV1
E2E-ENV1
MMMM
... PROD-LIKE ...
GANDALF TOOL
GIT
CHEF RECIPIES
DEVS
OPS

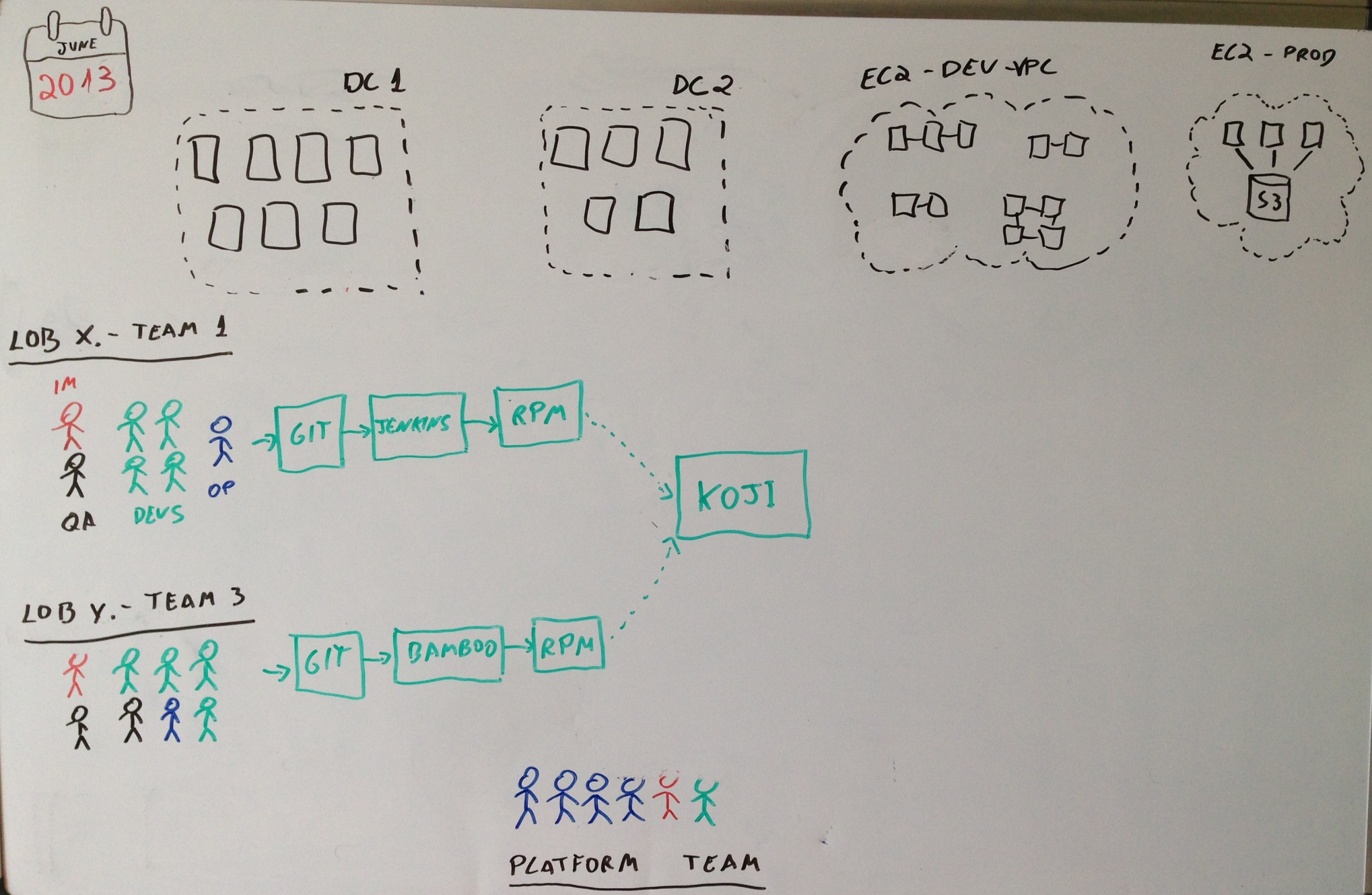

JUNE
2012
Datacenter 01
PROD
STAGING
Datacenter 02
EC2 VPC
CUSTOM-ENV1
E2E-ENV1
MMMM
... PROD-LIKE ...
CLOUD vs DC
PUPPET vs CHEF
DEBIAN vs CENTOS
DEPLOY MECH
...
GANDALF TOOL
GIT
CHEF RECIPIES
DEVS
OPS

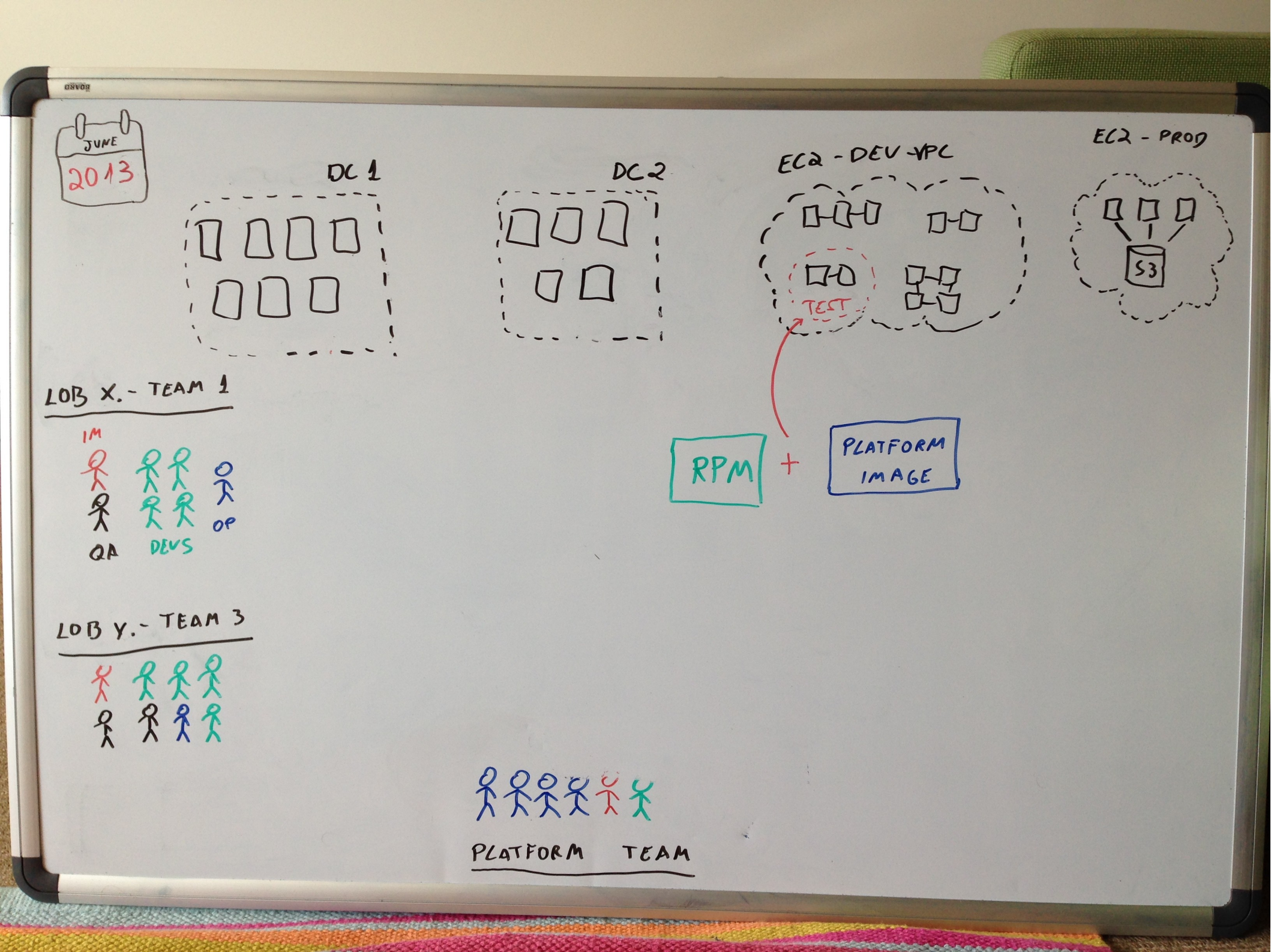

JUNE
2013
DC 1
DC 2
EC2 - DEV VPC
EC2 - PROD
S3
LOB X - TEAM 1
IM
QA
DEVS
OP
LOB Y - TEAM 3
PLATFORM TEAM

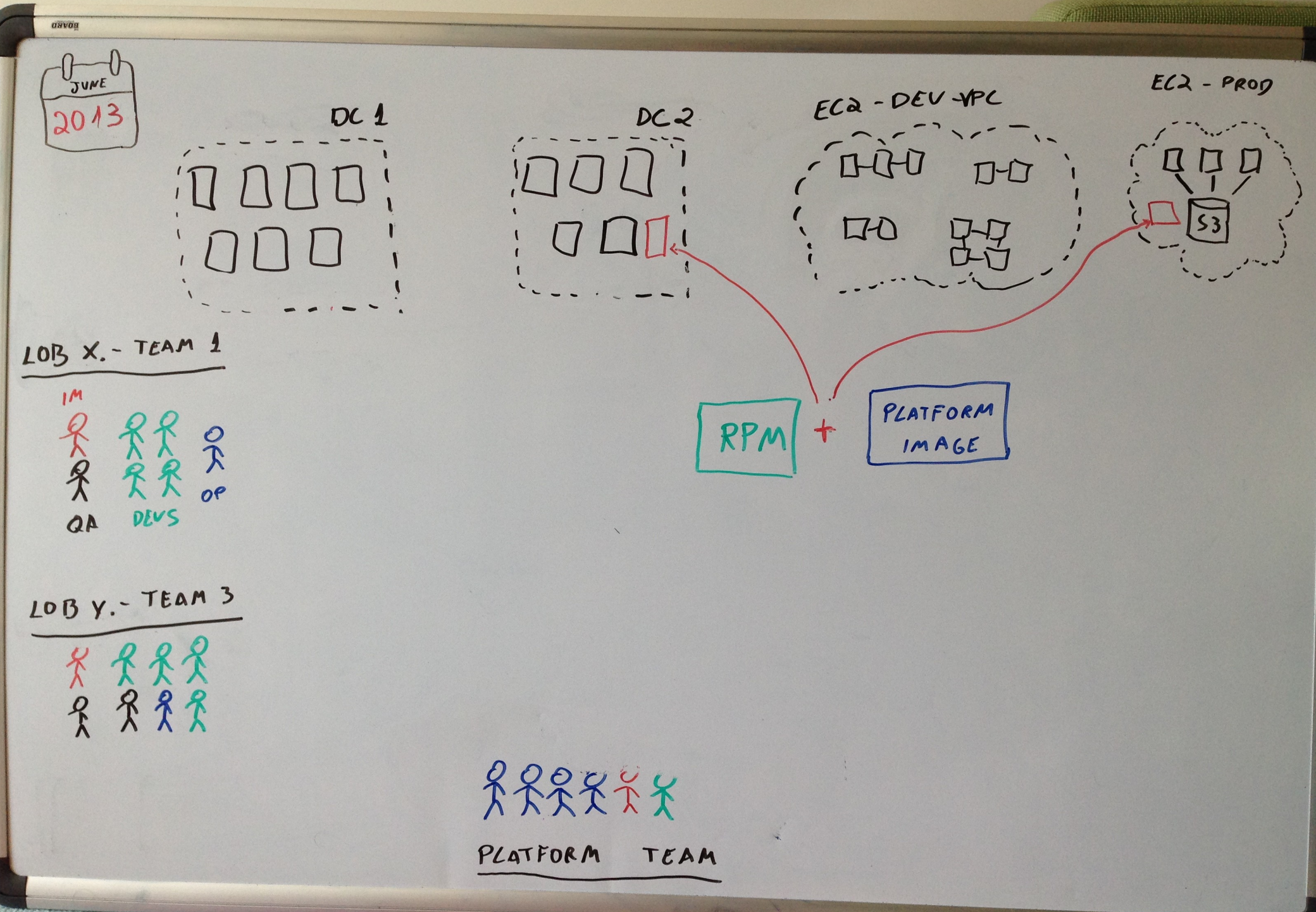

JUNE
2013
DC 1
DC 2
EC2 - DEV VPC
EC2 - PROD
S3
LOB X - TEAM 1
IM
QA
DEVS
OP
LOB Y - TEAM 3
VMDK
PLATFORM IMAGE
PLATFORM IMAGE
AMI
JENKINS
GIT
PUPPET
PLATFORM TEAM

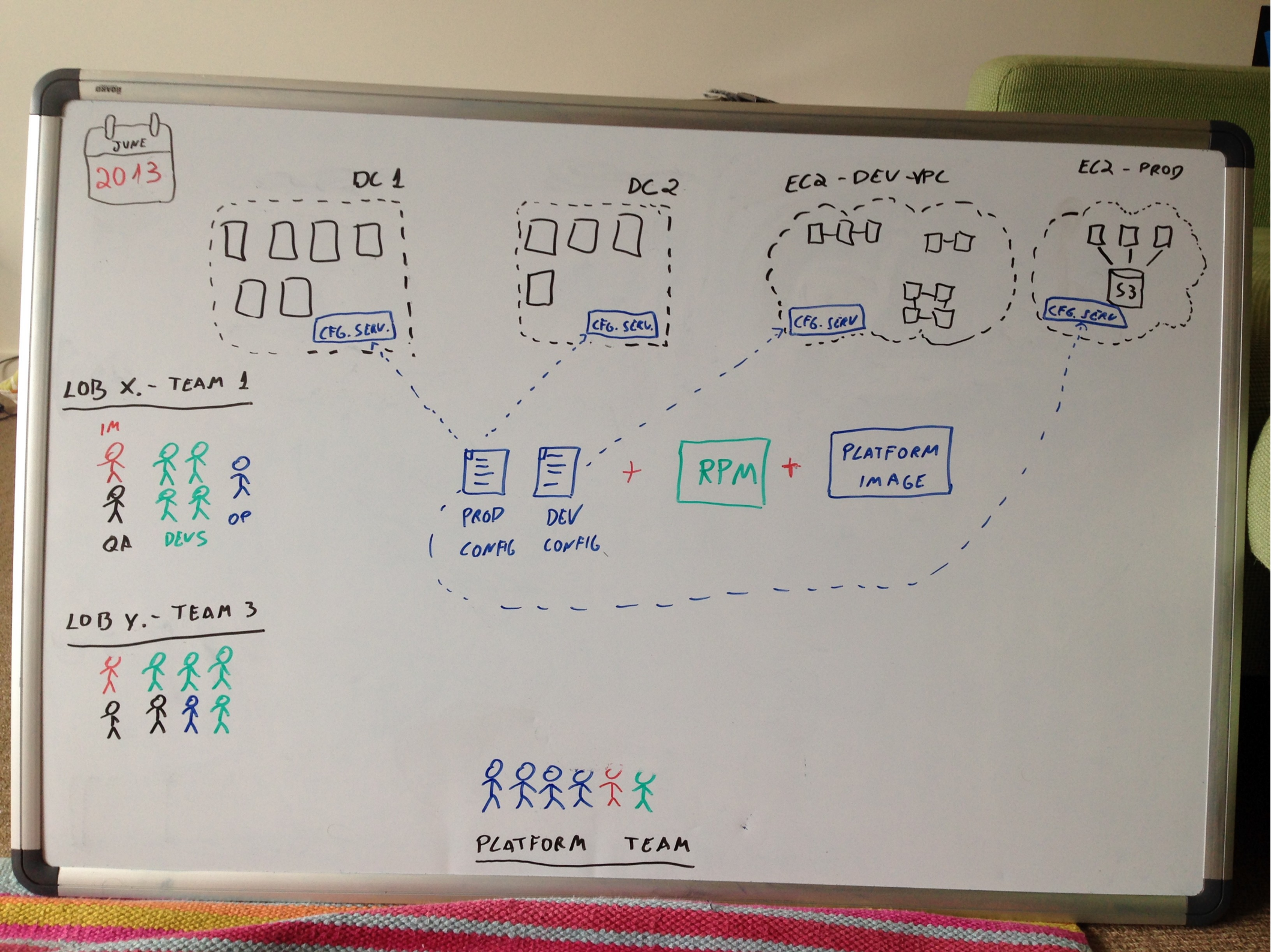

JUNE
2013
DC 1
DC 2
TEST
EC2 - DEV VPC
TEST
EC2 - PROD
S3
LOB X - TEAM 1
IM
QA
DEVS
OP
LOB Y - TEAM 3
VMDK
PLATFORM IMAGE
PLATFORM IMAGE
AMI
JENKINS
GIT
PUPPET
PLATFORM TEAM

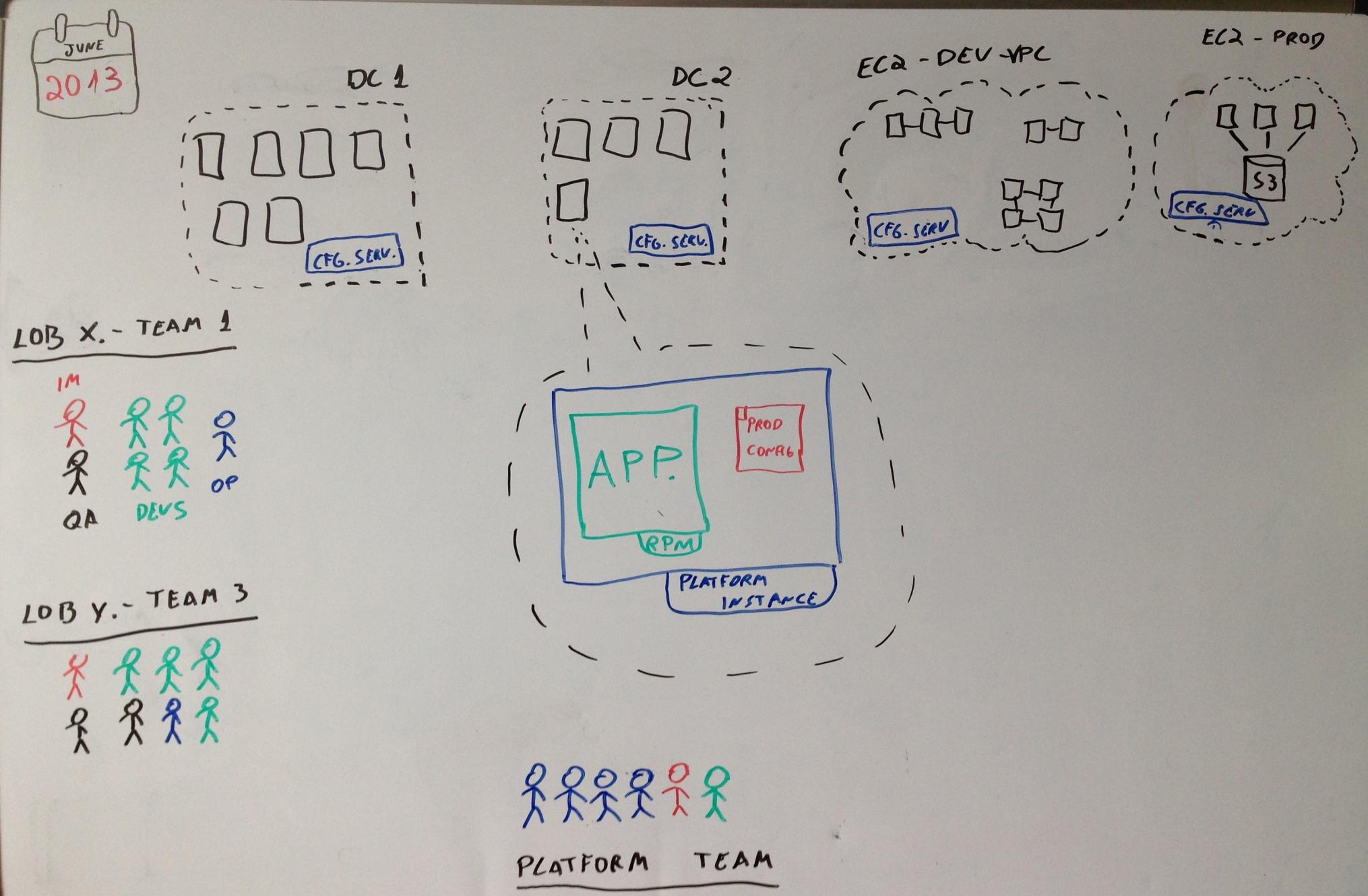

JUNE
2013
DC 1
DC 2
EC2 - DEV VPC
EC2 - PROD
S3
LOB X. - TEAM 1
IM
QA
DEVS
OP
LOB Y. - TEAM 3
VMDK
PLATFORM IMAGE
v3
STABLE
PLATFORM IMAGE
v3
STABLE
AMI
JENKINS
GIT
PROMOTE TO STABLE
PLATFORM TEAM

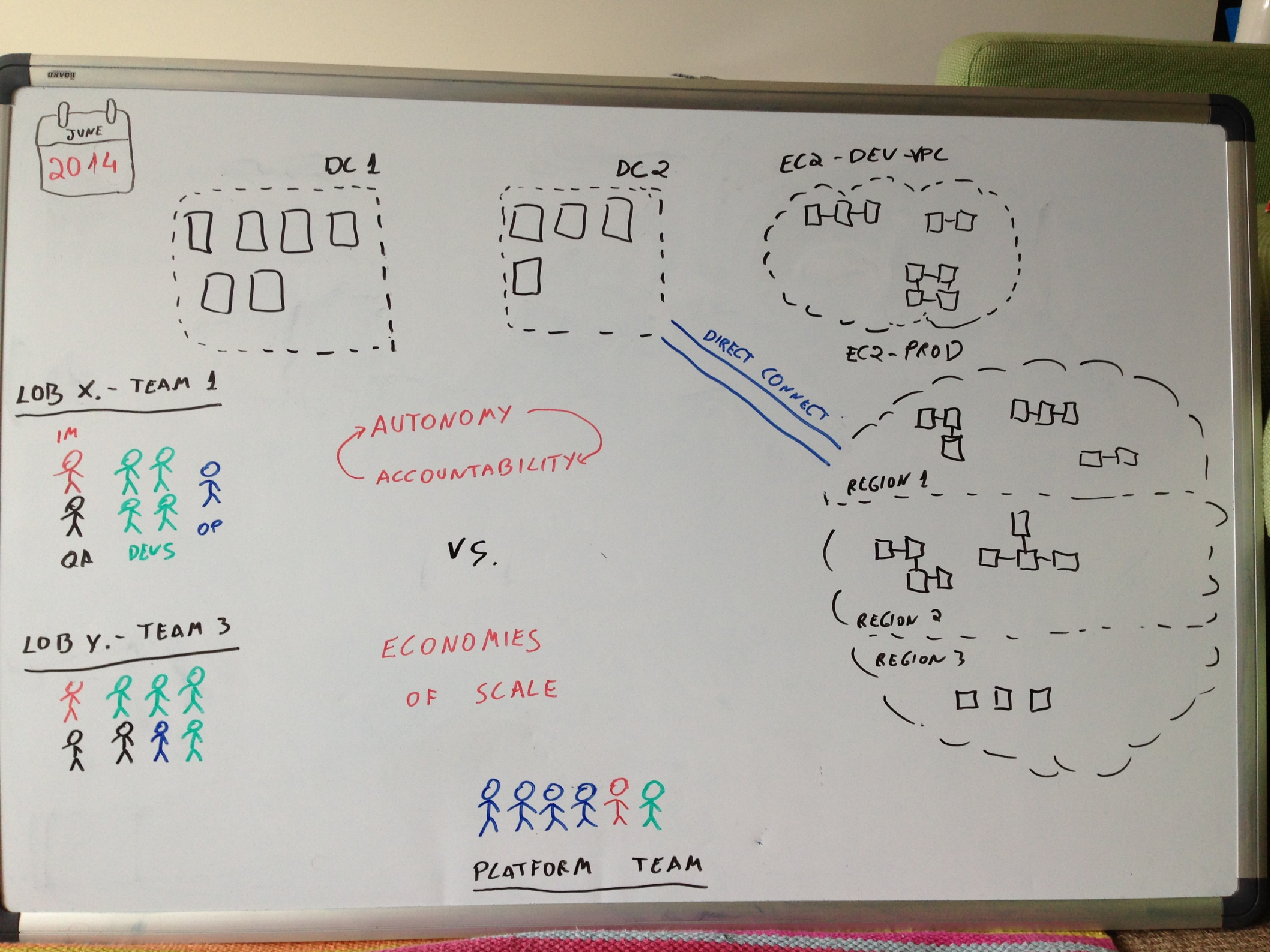

JUNE
2013
DC 1
DC 2
EC2 - DEV VPC
EC2 - PROD
S3
LOB X. - TEAM 1
IM
QA
DEVS
OP
GIT
JENKINS
RPM
KOJI
LOB Y. - TEAM 3
GIT
BAMBOO
RPM
PLATFORM TEAM

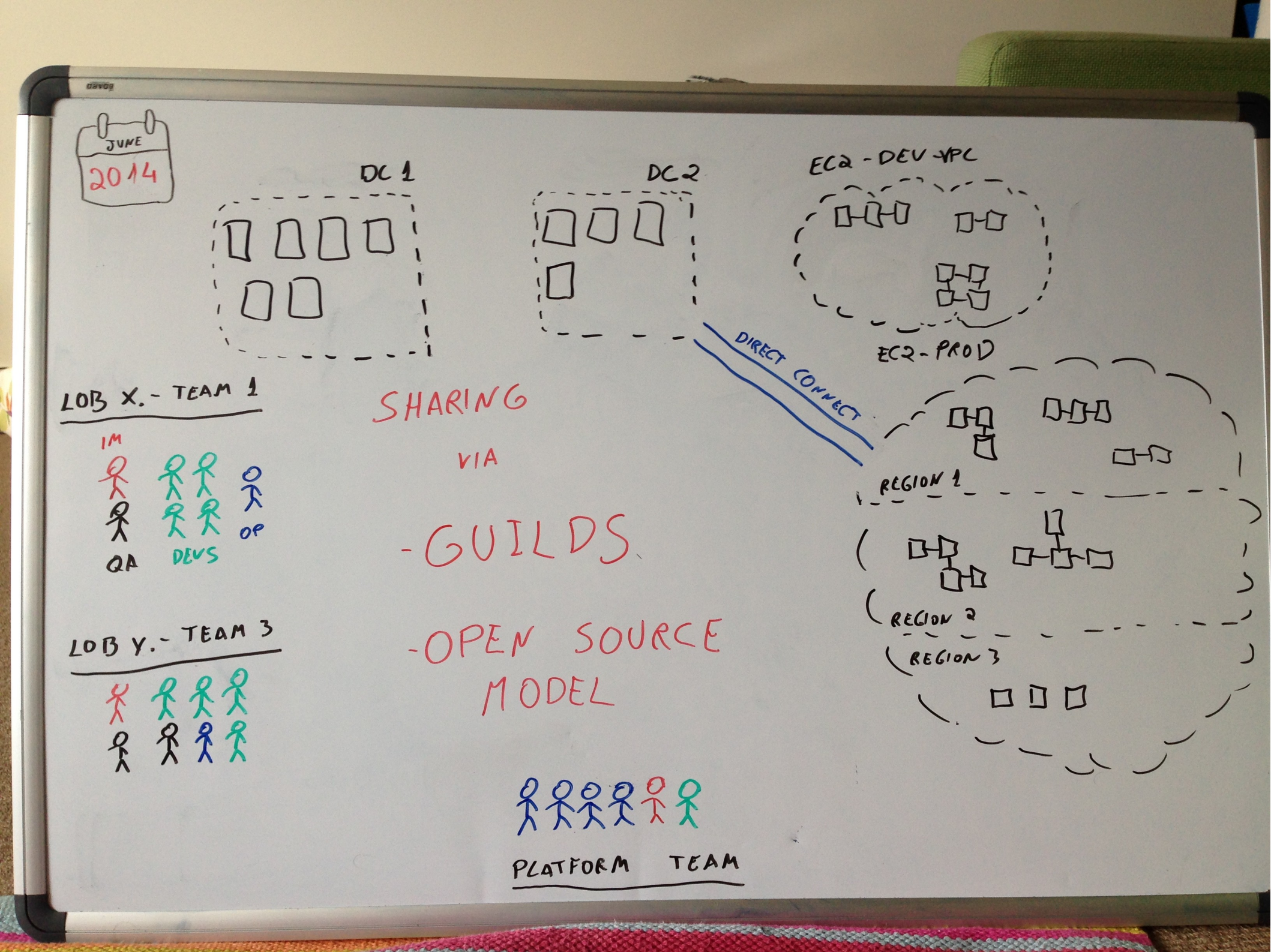

JUNE
2013
DC 1
DC 2
EC2 - DEV VPC
TEST
EC2 - PROD
S3
LOB X. - TEAM 1
IM
QA
DEVS
OP
RPM
+
PLATFORM IMAGE
LOB Y. - TEAM 3
PLATFORM TEAM

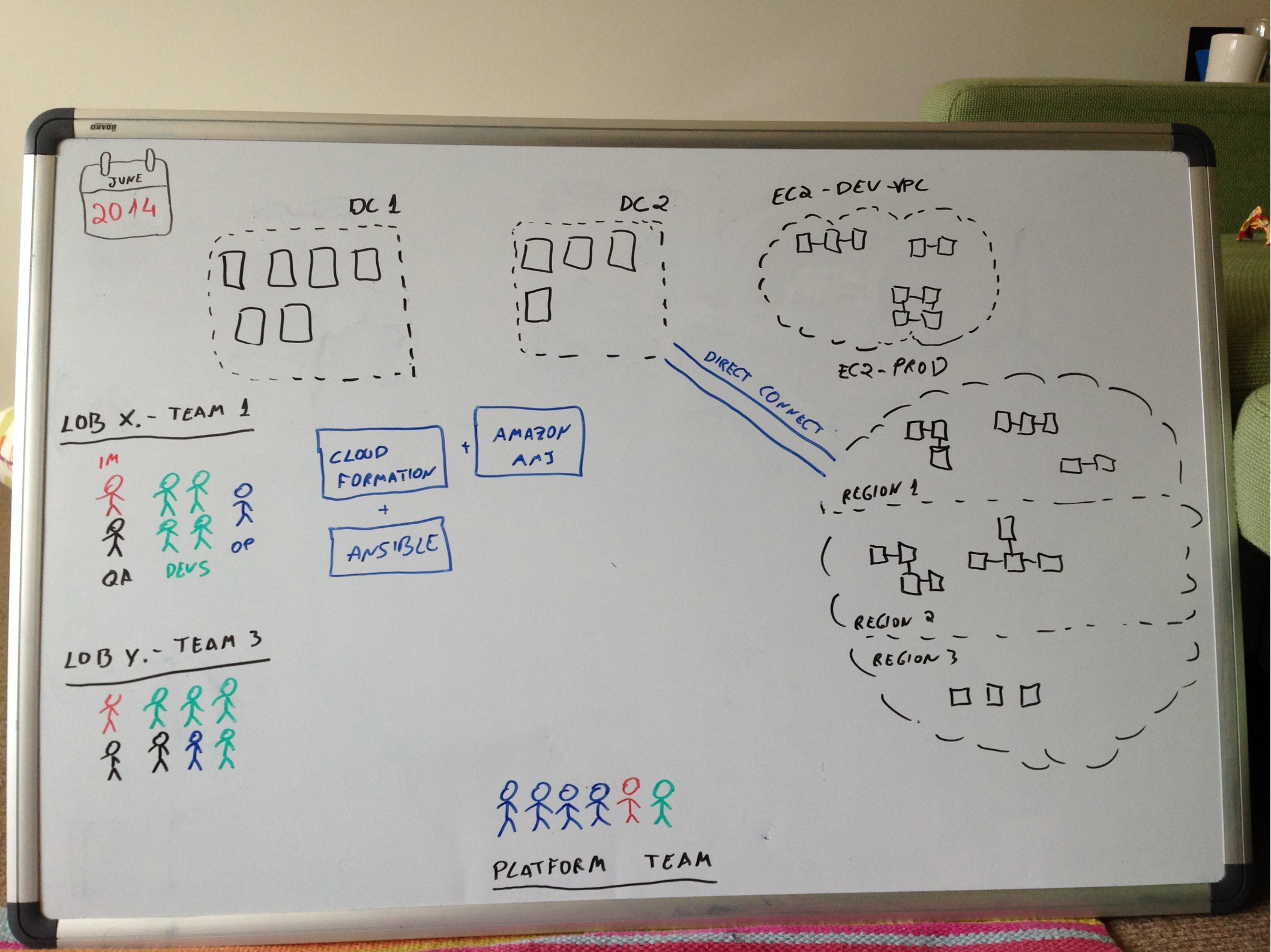

JUNE
2013
DC 1
DC 2
EC2 - DEV VPC
EC2 - PROD
S3
RPM
+
PLATFORM IMAGE
LOB X. - TEAM 1
IM
QA
DEVS
OP
LOB Y. - TEAM 3
PLATFORM TEAM

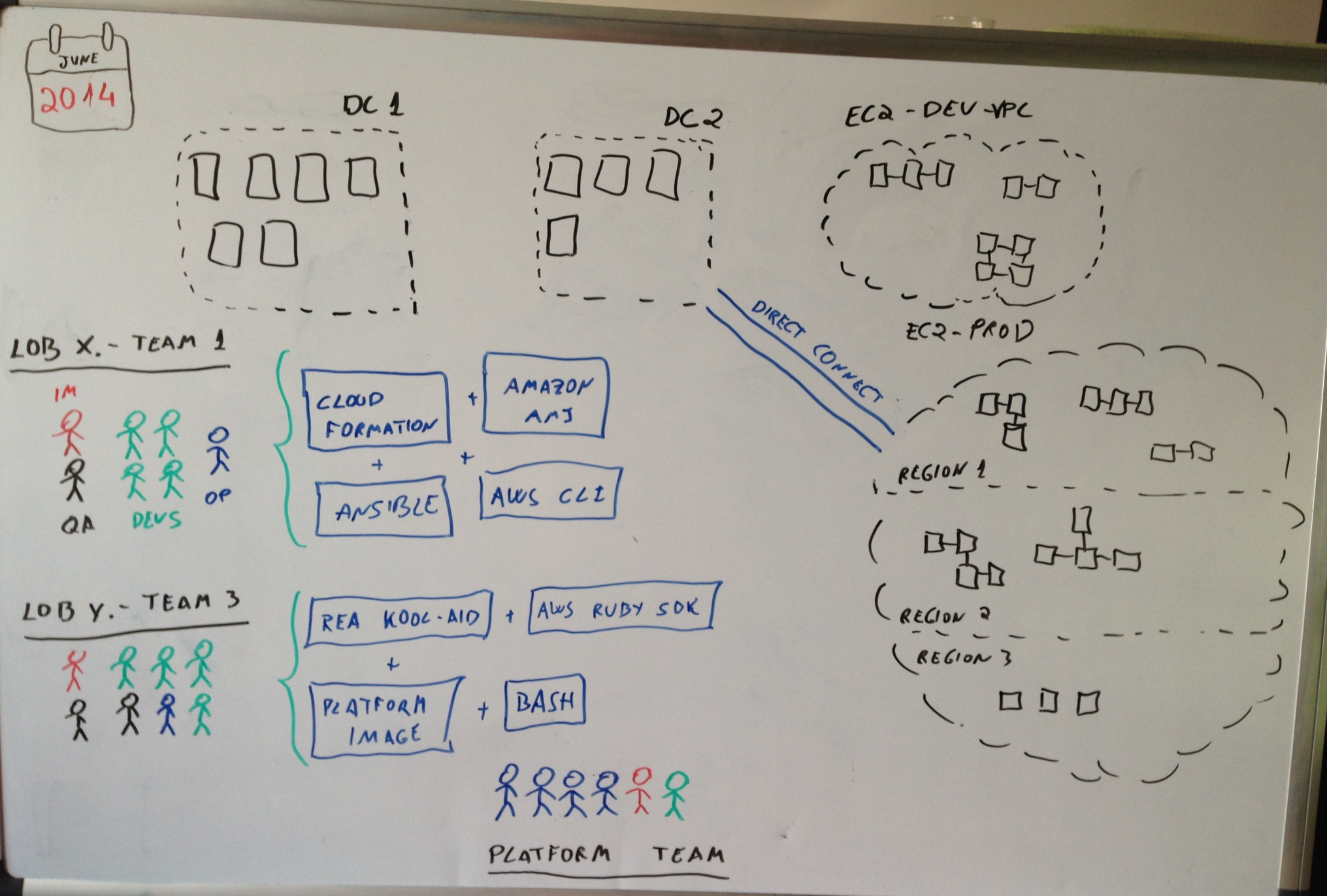

JUNE
2013
DC 1
CFG. SERV.
DC 2
CFG. SERV.
EC2 - DEV VPC
CFG. SERV
EC2 - PROD
S3
CFG. SERV
LOB X. - TEAM 1
IM
QA
DEVS
OP
PROD CONFIG
DEV CONFIG
+
RPM
+
PLATFORM IMAGE
LOB Y. - TEAM 3
PLATFORM TEAM

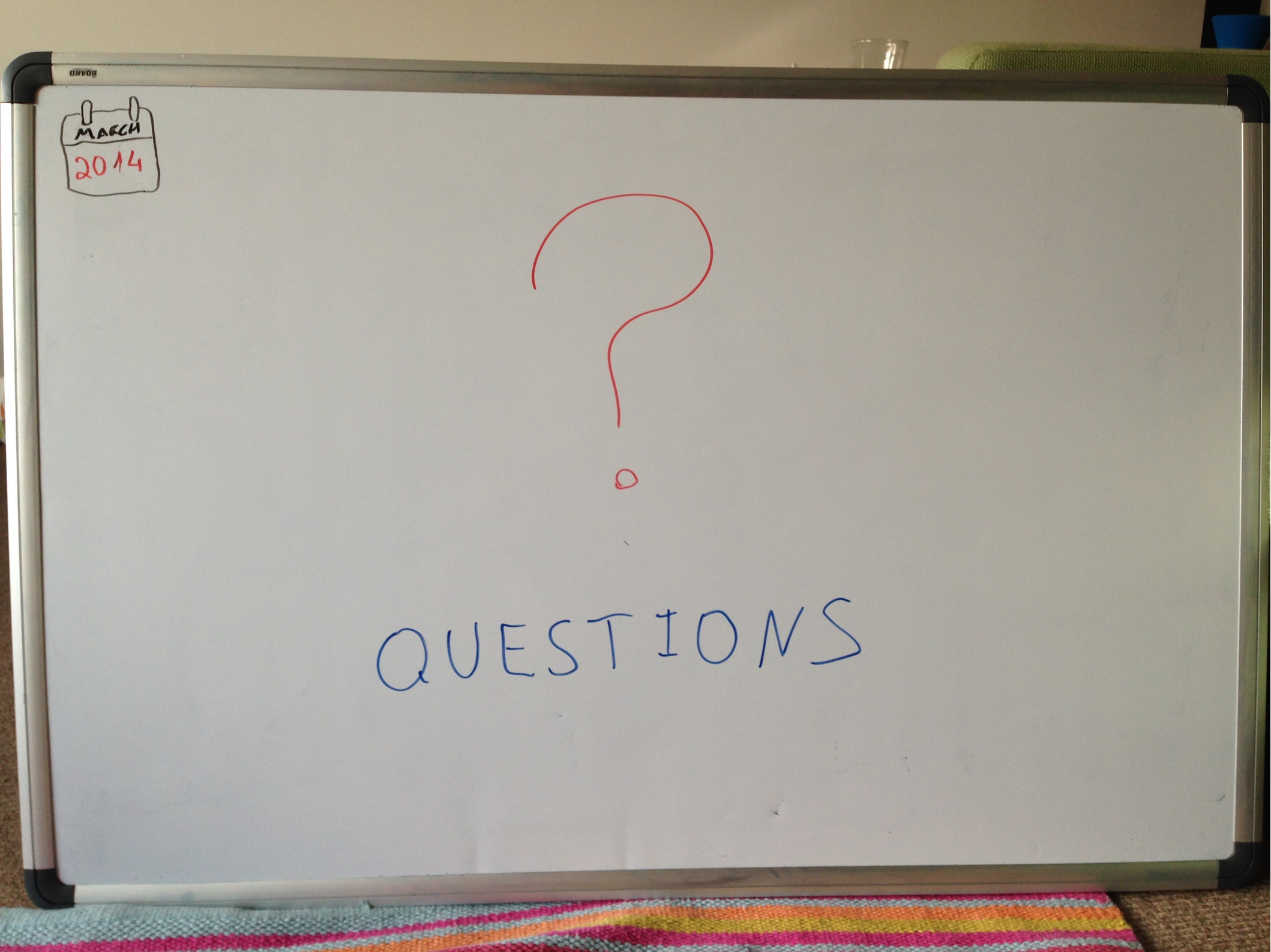

JUNE
2013
DC 1
CFG. SERV.
DC 2
CFG. SERV.
EC2 - DEV VPC
CFG. SERV
EC2 - PROD
S3
CFG. SERV
LOB X. - TEAM 1
IM
QA
DEVS
OP
APP.
RPM
PROD CONFIG
PLATFORM INSTANCE
LOB Y. - TEAM 3
PLATFORM TEAM


JUNE
2014
DC 1
DC 2
EC2 - DEV VPC
EC2 - PROD
DIRECT CONNECT
REGION 1
REGION 2
REGION 3
LOB X. - TEAM 1
IM
QA
DEVS
OP
AUTONOMY
ACCOUNTABILITY
VS.
ECONOMIES
OF SCALE
LOB Y. - TEAM 3
PLATFORM TEAM


JUNE
2014
DC 1
DC 2
EC2 - DEV VPC
EC2 - PROD
DIRECT CONNECT
REGION 1
REGION 2
REGION 3
LOB X. - TEAM 1
IM
QA
DEVS
OP
LOB Y. - TEAM 3
SHARING
VIA
- GUILDS
- OPEN SOURCE
MODEL
PLATFORM TEAM


JUNE
2014
DC 1
DC 2
EC2 - DEV VPC
EC2 - PROD
DIRECT CONNECT
REGION 1
REGION 2
REGION 3
LOB X. - TEAM 1
IM
QA
DEVS
OP
CLOUD FORMATION
+
AMAZON AMI
+
ANSIBLE
LOB Y. - TEAM 3
PLATFORM TEAM


JUNE
2014
DC 1
DC 2
EC2 - DEV VPC
EC2 - PROD
DIRECT CONNECT
REGION 1
REGION 2
REGION 3
LOB X. - TEAM 1
IM
QA
DEVS
OP
CLOUD FORMATION
+
AMAZON AMI
+
ANSIBLE
+
AWS CLI
LOB Y. - TEAM 3
REA KOOL-AID
+
AWS RUBY SDK
+
PLATFORM IMAGE
+
BASH
PLATFORM TEAM


MARCH
2014
QUESTIONS

MARCH
2015
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